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TILL GEOCHEMISTRY OF THE MCADAM (NTS 21 G/11) MAP AREA, YORK COUNTY, NEW BRUNSWICK

A.A. Seaman, P.Geo.

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SUMMARY

Glacial sediment samples, primarily basal till, were collected for 255 grid points in the McAdam (NTS 21 G/11) map area during a till sampling program conducted between 1991 and 1994. A total of 331 samples were collected.

The details concerning this sampling program, and the results obtained, were previously reported in Open File Report 95-5. The purpose of the current report is to provide the same information in digital format, with additional information regarding site characteristics that was not previously detailed. The format for the current report follows that used for previously published Department of Natural Resources and Enegy digital till geochemistry data files.

SOMMAIRE

Des échantillons de sédiments glaciaires, essentiellement du till de fond, ont été prélevés à 255 points grille dans le secteur cartographique de McAdam (SNRC 21 G/11), dans le cadre d'un programme d'échantillonnage de till réalisé entre 1991 et 1994. Trois cent trente et un (331) échantillons avaient alors été prélevés.

Les détails au sujet de ce programme d'échantillonnage et les résultats obtenus ont déjà été communiqués dans le *Rapport public 95-5*. Le rapport actuel vise à fournir les mêmes renseignements sous forme numérique, de même que des renseignements supplémentaires au sujet des caractéristiques des emplacements, sur lesquelles on n'avait pas fourni de détails auparavant. La présentation du rapport courant correspond à celle utilisée aux fins des fichiers de données géochimiques numérisées sur le till publiés antérieurement par le ministère des Ressources naturelles et de l'Énergie.

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Till Geochemistry of the McAdam (NTS 21 G/11) Map Area, York County, New Brunswick: Site and Geochemical Data

INTRODUCTION

The McAdam (NTS 21 G/11) map area lies in southwestern New Brunswick, to the southwest of Fredericton and adjacent to the State of Maine (Figure 1). Till sampling in the western part of the map area was begun by the author in 1991 and continued in 1992 by the author and Tracey Wood. Andrew Stumpf, Garrett Bell and the author completed sampling of the remaining grid points in the map area in 1993. Andrew Stumpf and the author carried out follow-up sampling and surficial geology mapping in 1994. The results of the till sampling and mapping in the McAdam area comprised the topic of Stumpf's M.Sc. thesis at the University of New Brunswick. This was subsequently published by the Department of Natural Resources and Energy, Minerals and Energy Division, as Open File Report 95-5 (Stumpf 1995). The details regarding sample collection and preparation are documented in that report. Element distribution maps were also published for: Au, Ag, As, Hg and Sb (Seaman *et al.* 1995a); Cu, Pb, Zn, Co and Ni (Seaman *et al.* 1995b); and Mn, Fe, Sn, W, Th and U (Seaman *et al.* 1995c).

The current Open File serves two purposes. The first is to make available in a digital format the geochemical data originally published in hard copy format in Open File Report 95-5 (Stumpf 1995). The second is to provide additional site information, in digital form, which was collected on the field sheets but not before published, and to correct some errors in the earlier report. The format of this report is comparable to that used in recent digital database Open Files for other map areas in west-central New Brunswick (Seaman 1999a, 1999b, 2000), i.e., there are two digital data files and a supporting text file. The site data file presents site location, site characteristics and geological data for each sample site. The geochemical data file presents the analytical data obtained for each sample. The text file provides an overview of sample collection and preparation and analytical procedures, and a discussion of reproducibility with respect to standards and duplicates.

SAMPLING AND ANALYTICAL METHODS

Field Procedures

Sampling was based on a 2 km grid, the grid points comprising the intersections of the even numbered UTM easting lines and the odd numbered UTM northing lines on the fourth edition of the McAdam (NTS 21 G/11) 1:50,000 scale map sheet [North American Datum 1927 (NAD27)]. This is the same grid system used for other till geochemistry investigations in southwestern and west-central New Brunswick. Grid points and their associated samples were numbered based on their position in the 2 km grid pattern, with columns identified by letter from west to east (the letters 'I', 'J', 'O', and 'U' were omitted because of the potential for confusion with the numbers '0' and '1' and the letters

'T' and 'V') and rows by number from north to south. Therefore, grid point MA-A01 is in the northwest corner of the study area (UTM easting ^{6}18000, northing ^{50}67000), while grid point MA-X14 is in the southeast corner (UTM coordinates ^{6}56000E, ^{50}41000N). Where more than one site was sampled in the vicinity of one grid point, the first site was identified with the suffix "a", the second with the suffix "b", and so on. An exception was made for some sites that lay midway between two grid points. These were assigned numbers that more accurately indicated their position, e.g., site MA-FG01 lies approximately midway between sites MA-F01 and MA-G01. At sites where more than one sample was collected, the upper sample was denoted with the suffix "-1", the next with the suffix "-2", and so on.

Samples were collected from as close as practicable to the grid point. If the material at the original sample point comprised a material other than basal till (basal lodgement or basal meltout till), an attempt was made to obtain basal till from another site within a few hundred metres of the grid point. The distribution of the grid points is illustrated on Figure 2, superimposed on the bedrock geology of the area.

Sampling procedure involved the excavation by shovel and rock pick of sample pits extending at least 0.1 m into the C-horizon, if possible. Sample pits were cleaned out and sampled by hand, using a stainless steel hunting knife to loosen the material, so as to minimize W contamination. To prevent Au contamination, members of the sampling crews refrained from wearing gold jewellery for the duration of the field season. Approximately 5 kg of till was obtained from the C-horizon for geochemical and grain size analysis. This sample size is adequate to permit archiving a quantity of material for possible future reanalysis. In addition, as an aid to determining till transport direction, a pebble sample was also collected from the C-horizon. Nominal sample size was 100 pebbles, of coarse gravel size or larger (~ >1.5 cm b-axis dimension) if possible. However, at sparsely pebbly sites a lesser number of pebbles were collected.

Sample Preparation

Sample preparation was carried out in the Geochemical Laboratory of the Department of Natural Resources and Energy (DNRE). Till samples were dried and sieved (using stainless steel sieves) to separate two subsamples. One, a minus 0.063 mm (silt plus clay) fraction, was used for the geochemical analyses. The other, a minus 2 mm fraction, was used for grain size analysis using a sedimentation technique.

Pebble samples were washed, and pebble lithology was determined using a hand lens.

Analytical Procedures

The sample splits for geochemical analysis were submitted to Activation Laboratories Ltd. (Actlabs) of Ancaster, Ontario. The samples collected in 1991, 1992 and 1993 were processed as one batch in the spring of 1994. Analysis of these samples was by the

Actlabs "Au+34" package with enhanced detection limits (code 1D enhanced), the base metal suite package (code 1E), and by special techniques for Hg (code 1G) and Sn (code 5D). The follow-up samples collected in 1994 were analysed later that year by the same suite of packages, with the exception that the "Au+34" package without enhanced detection limits (code 1D) was used. The methods of analysis used and the elements for which values were obtained are summarised below. Detection limits for those elements reported in the data file are summarised in Table 1.

(1) *Instrumental Neutron Activation Analysis (INAA)*

INAA analyses were obtained for Au plus 34 elements (Ag, As, Ba, Br, Ca, Ce, Co, Cr, Cs, Eu, Fe, Hf, Hg, Ir, La, Lu, Mo, Na, Nd, Ni, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, U, W, Yb and Zn). Values for Ag, Hg, Ir, Ni, Se, Sn, Sr and Zn by INAA are not reported in the data file. All samples were below the INAA detection limit for Ag (5 ppm), Se (3 ppm for 1991-93 samples; 5 ppm for 1994 samples), Sn (100 ppm) and Sr (500 ppm). All samples were below the INAA detection limit for Hg (1 ppm) except for the first of the field duplicate samples for site MA-F04, which returned a value at the detection limit. Similarly, all samples were below the detection limit for Ir (5 ppb) except for sample MA-W08-2, which returned a value of 6 ppb. Ni and Zn values by INAA are not reported because the results are very erratic at the relatively low levels of concentration in these samples. These two elements are better represented by the values returned by ICP analysis.

(2) *Inductively-coupled Plasma Emission Spectrometry (ICP)*

ICP analyses were obtained for 7 elements (Ag, Cd, Cu, Mn, Ni, Pb, and Zn) following aqua regia extraction. In addition, Sn values were obtained by ICP analysis following NaOH fusion.

(3) *Cold Vapour Atomic Absorption Spectrometry (CV-AAS)*

CV-AAS analysis was used to determine Hg.

Reproducibility

(1) *Analysis of Standard Samples*

Ten standard samples were included with the initial batch of samples that were submitted to Actlabs. They comprised: two splits from each of Geological Survey of Canada standards LKSD-1 and LKSD-2; and three splits from each of standards LKSD-3 and LKSD-4. The follow-up samples were accompanied by one split each of standards LKSD-2 and LKSD-4. The results of the analyses of these standards, plus the expected values, are summarised in Tables 2-1 to 2-4. The false sample numbers assigned to the standards are listed in these tables to indicate the position of the standard within the sequence of analyses (MA-FG1-1 and MA-W13b-1 accompanied the follow-up samples).

The expected values listed are the means of the indicated number of other Actlabs analyses obtained by DNRE for the same standard.

Reproducibility was good to excellent for standards LKSD-1 and LKSD-3, with 64% or more of the values lying within one standard deviation (1σ) of the expected value, and 83% or more within 2σ. Reproducibility was good for two of the three analyses of standard LKSD-2 (identified as samples MA-B10 and MA-FG1-1), and for two of the four analyses of standard LKSD-4 (identified as MA-W13b-1 and MA-X15). For these four splits 39 to 69% of the values lie within 1σ of the expected value, and >85% lie within 2σ. Reproducibility was only fair for the other analysis of LKSD-2 (identified as sample MC-S15) and for one of the remaining analyses of LKSD-4 (identified as sample MA-D15). For these two splits only 36% of the values fell within 1σ of the expected value, and 53 to 61% fell within 2σ. Reproducibility of the fourth split of standard LKSD-4 (identified as sample MA-L15) was very poor. For this sample 47% of the values differ from the expected value by more than 3σ, with the most extreme deviation from the expected value (>12σ) being for La. An examination of the values reported for sample MA-L15 reveals that the ICP, Hg and Sn values fall within acceptable limits (i.e., within 3σ of the expected value). However, with the exception of Rb (which experience shows to return somewhat erratic values), all of the INAA values appear to be about one-third of the expected value. This extreme deviation cannot be explained as a numbering mix-up, because the values reported for sample MA-L15 differ significantly from the values for the other standards and regular samples that were analysed at this time. The most likely explanation is that the deviation is the result of a keyboard error, most probably in entering the weight for sample MA-L15 into the equation used to calculate the individual element values. Consequently, the values adjacent to MA-L15 in the analytical sequence are not considered to be suspect.

(2) *Analysis of Duplicate Samples*

Eleven blind analytical duplicates were included with the samples submitted to Activation Laboratories Ltd. for analysis. These duplicates comprise two splits obtained from the same sample after preparation. Ten duplicates were submitted with the initial batch of samples, while the eleventh was submitted with the follow-up samples. The average percent deviation from the mean value was calculated for each element (Table 3), as a measure of the amount of variability between the pairs of duplicate samples. It is less than 10% for most elements. The exceptions are primarily for those elements that occur at levels near the detection limit or that are influenced by the "nugget effect," such as Au, Ta, Tb and W.

In addition, five field duplicate samples were collected from the study area. These comprised two samples collected from different levels in the same test pit or from different positions along the lateral face of a section. For sites MA-F04, MA-M01, MA-S08 and MA-S12 the two samples were collected at the same time. For site MA-F13 the original test pit was re-excavated and resampled approximately three months after it was originally sampled. As with the analytical duplicates, the average percent deviation from the mean is less than 10% for most elements. However, because the field duplicate

samples comprise discretely different samples, somewhat more than half of the elements have average percent deviations from the mean that are greater than the equivalent values for the analytical duplicates (Table 3).

DATA FILES

There are two data files in this Open File. Table 4 is the legend for the field, map and laboratory observations data file (Appendix 1). Table 5 is the legend for the geochemical data file (Appendix 2).

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Field assistance was provided by Tracey Wood, Nicholas Macdonell and Judy Kosch in the summer of 1992; by Garrett Bell, Dan Clowater, and Dave Murchison in the summer of 1993; by Rex Boldon in the fall of 1993;.and by Andrew Stumpf in the summers of both 1993 and 1994. Sample preparation was performed by Rex Boldon. Pebble lithology identification was performed by Andrew Stumpf

The data files were checked by Vernon Banks, Lisa Christie and Gerry Johnson. The report was reviewed by A.G. (Toon) Pronk, P.Geo. Publication was authorized by L.R. Fyffe, Manager of Geological Surveys South.

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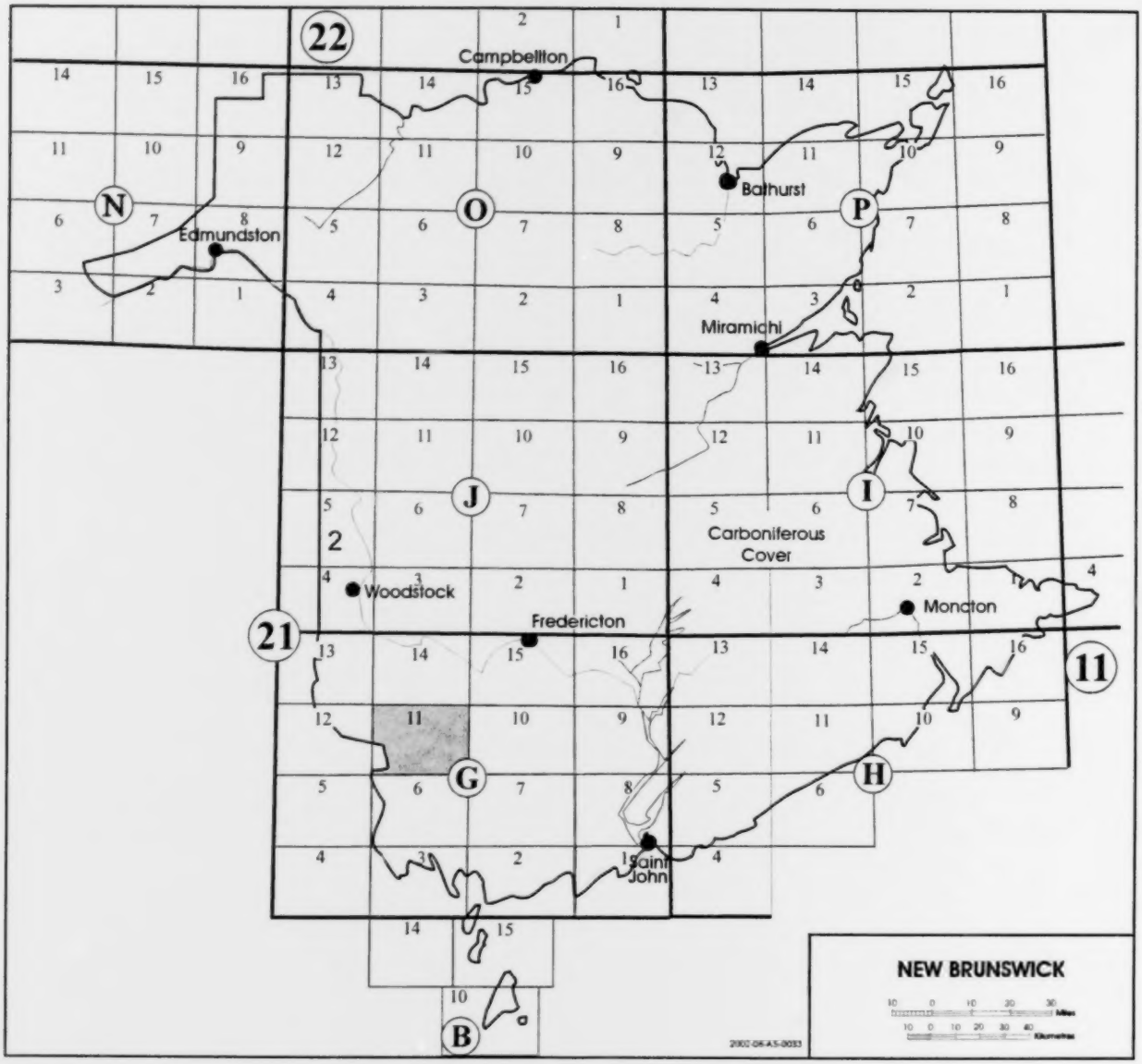

Figure 1. Location of McAdam (NTS 21G/11) map area.

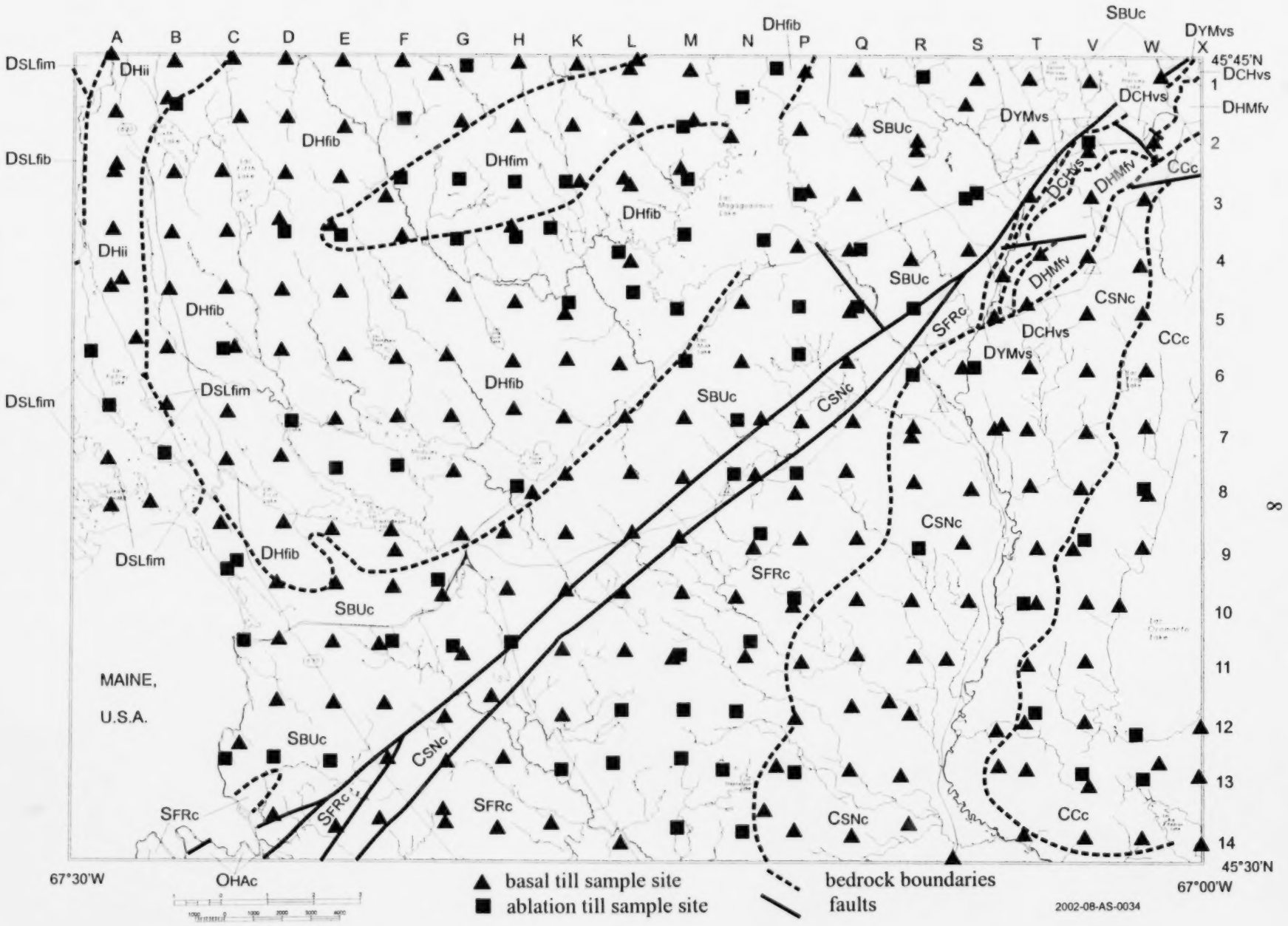

Figure 2. Sample site locations in the McAdam (NTS 21 G/11) map area, and the bedrock geology of the area (from McLeod *et al.* 1998). See Table 4 for bedrock unit designations and descriptions.

Table 1. Summary of Analytical Detection Levels and Methods

ELEMENT	DETECTION LEVEL		METHOD
	original run	follow-up	
Ag Silver	0.2 ppm	0.2 ppm	ICP
As Arsenic	0.5 ppm	2 ppm	INAA
Au Gold	2 ppb	5 ppb	INAA
Ba Barium	50 ppm	100 ppm	INAA
Br Bromine	0.5 ppm	1 ppm	INAA
Ca Calcium	1 %	1 %	INAA
Cd Cadmium	0.5 ppm	0.5 ppm	ICP
Ce Cerium	3 ppm	3 ppm	INAA
Co Cobalt	1 ppm	5 ppm	INAA
Cr Chromium	5 ppm	10 ppm	INAA
Cs Cesium	1 ppm	2 ppm	INAA
Cu Copper	1 ppm	1 ppm	ICP
Eu Europium	0.2 ppm	0.2 ppm	INAA
Fe Iron	0.01 %	0.02 %	INAA
Hf Hafnium	1 ppm	1 ppm	INAA
Hg Mercury	5 ppb	5 ppb	CV-AAS
La Lanthanum	0.5 ppm	1 ppm	INAA
Lu Lutetium	0.05 ppm	0.05 ppm	INAA
Mn Manganese	2 ppm	2 ppm	ICP
Mo Molybdenum	1 ppm	5 ppm	INAA
Na Sodium	0.01 %	0.05 %	INAA
Nd Neodymium	5 ppm	5 ppm	INAA
Ni Nickel	1 ppm	1 ppm	ICP
Pb Lead	2 ppm	2 ppm	ICP
Rb Rubidium	15 ppm	30 ppm	INAA
Sb Antimony	0.1 ppm	0.2 ppm	INAA
Sc Scandium	0.1 ppm	0.1 ppm	INAA
Sm Samarium	0.1 ppm	0.1 ppm	INAA
Sn Tin	1 ppm	1 ppm	fusion-ICP
Ta Tantalum	0.5 ppm	1 ppm	INAA
Tb Terbium	0.5 ppm	0.5 ppm	INAA
Th Thorium	0.2 ppm	0.5 ppm	INAA
U Uranium	0.5 ppm	0.5 ppm	INAA
W Tungsten	1 ppm	4 ppm	INAA
Yb Ytterbium	0.2 ppm	0.05 ppm	INAA
Zn Zinc	1 ppm	1 ppm	ICP

All analyses were by Activation Laboratories Ltd., Ancaster, Ontario

Table 2-1. Analyses of standards: LKSD-1

Element †	LKSD-1			
	MA-H15	MA-N15	Expected Value ± 1 σ	No. of Analyses
Ag (ppm) @	0.6	0.9	0.71 ± 0.21	17
As (ppm) #	34	33	35.9 ± 1.9	29
Au (ppb) #	4	<2	6.8 ± 7.8	29
Ba (ppm) #	410	490	439 ± 57	29
Br (ppm) #	11	10	10.4 ± 0.8	29
Ca (%) #	8	9	8.1 ± 0.9	29
Cd (ppm) @	1.0	1.0	1.21 ± 0.21	17
Ce (ppm) #	28	31	28.9 ± 3.1	29
Co (ppm) #	10	9	9.9 ± 0.7	29
Cr (ppm) #	31	27	29.5 ± 2.9	29
Cs (ppm) #	<1	<1	<1	29
Cu (ppm) @	38	32	41.3 ± 2.7	17
Eu (ppm) #	1.0	1.1	1.07 ± 0.12	29
Fe (%) #	2.77	3.01	2.859 ± 0.178	29
Hf (ppm) #	4	4	4.0 ± 0.6	29
Hg (ppb) *	100	95	114 ± 20	21
La (ppm) #	16	15	16.0 ± 1.1	29
Lu (ppm) #	0.40	0.39	0.37 ± 0.07	29
Mn (ppm) @	340	310	567.4 ± 96.8	17
Mo (ppm) #	6	6	9.0 ± 5.4	28
Na (%) #	1.43	1.42	1.478 ± 0.117	29
Nd (ppm) #	16	23	15.7 ± 2.8	29
Ni (ppm) @	9	8	15.2 ± 1.9	17
Pb (ppm) @	66	64	83.5 ± 6.0	17
Rb (ppm) #	<15	<15	26.4 ± 13.0	29
Sb (ppm) #	1.2	1.1	1.22 ± 0.12	29
Sc (ppm) #	7.9	8.1	7.68 ± 0.53	29
Sm (ppm) #	3.3	3.6	3.38 ± 0.34	29
Sn (ppm) @	6	8	9.7 ± 3.4	13
Ta (ppm) #	<0.5	<0.5	<0.5	29
Tb (ppm) #	0.8	<0.5	<0.5	29
Th (ppm) #	2.7	2.2	2.31 ± 0.22	29
U (ppm) #	11	10	9.8 ± 1.1	29
W (ppm) #	<1	1	<1	29
Yb (ppm) #	2.6	2.5	2.42 ± 0.21	29
Zn (ppm) @	246	214	306.9 ± 21.2	17

† Symbols indicate the analytical method (see Table 5)

Table 2-2. Analyses of standards: LKSD-2

Element †	LKSD-2				
	MA-B10	MA-FG1-1	MA-S15	Expected Value ± 1 σ	No. of Analyses
Ag (ppm) @	0.6	1.2	0.8	0.88 ± 0.18	17
As (ppm) #	9.1	11	12	10.4 ± 1.8	29
Au (ppb) #	<2	6	4	2.7 ± 2.5	29
Ba (ppm) #	760	650	930	773 ± 105	29
Br (ppm) #	18	15	20	17.0 ± 1.4	29
Ca (%) #	<1	1	<1	1.5 ± 1.0	29
Cd (ppm) @	1.0	1.0	1.0	0.76 ± 0.20	17
Ce (ppm) #	120	130	130	111 ± 8	29
Co (ppm) #	18	15	20	15.8 ± 1.2	29
Cr (ppm) #	57	47	68	51.9 ± 4.9	29
Cs (ppm) #	2	2	2	2.3 ± 0.5	29
Cu (ppm) @	32	35	35	36.2 ± 3.5	17
Eu (ppm) #	2.3	1.9	2.3	2.03 ± 0.14	29
Fe (%) #	4.48	3.83	4.62	4.106 ± 0.238	29
Hf (ppm) #	8	7.5	9	7.4 ± 0.7	29
Hg (ppb) *	150	205	155	151.8 ± 20.8	17
La (ppm) #	76	66	78	68.5 ± 4.5	29
Lu (ppm) #	0.74	0.86	0.76	0.725 ± 0.072	29
Mn (ppm) @	1594	1864	1762	1824.0 ± 94.9	17
Mo (ppm) #	<1	<5	<1	2.6 ± 3.0	24
Na (%) #	1.43	1.30	1.50	1.377 ± 0.104	29
Nd (ppm) #	62	50	74	54.4 ± 5.3	29
Ni (ppm) @	20	23	22	26.2 ± 2.8	17
Pb (ppm) @	32	34	34	41.9 ± 3.9	17
Rb (ppm) #	89	66	<15	75.9 ± 7.6	29
Sb (ppm) #	1.1	0.8	0.9	1.01 ± 0.12	29
Sc (ppm) #	13	11	14	11.8 ± 0.7	29
Sm (ppm) #	11	9.0	11	9.59 ± 0.68	29
Sn (ppm) @	2	2	2	1.2 ± 0.5	12
Ta (ppm) #	<0.5	2	<0.5	<0.5	29
Tb (ppm) #	1.5	1.3	1.5	1.21 ± 0.28	29
Th (ppm) #	15	12	16	13.0 ± 1.2	29
U (ppm) #	9.4	7.8	8.7	7.49 ± 1.00	29
W (ppm) #	<1	<4	<1	<1	29
Yb (ppm) #	5.1	4.52	5.7	4.64 ± 0.30	29
Zn (ppm) @	157	189	173	198.5 ± 14.2	17

† Symbols indicate the analytical method (see Table 5)

Table 2-3. Analyses of standards: LKSD-3

Element †	LKSD-3				
	MA-F15	MA-Q15	MA-V15	Expected Value ± 1 σ	No. of Analyses
Ag (ppm) @	2.8	2.8	2.6	2.62 ± 0.29	19
As (ppm) #	25	28	26	27.1 ± 9.6	29
Au (ppb) #	<2	12	3	3.4 ± 2.6	29
Ba (ppm) #	660	770	680	664 ± 124	29
Br (ppm) #	16	17	16	14.8 ± 1.5	29
Ca (%) #	2	2	2	1.2 ± 0.8	29
Cd (ppm) @	0.5	0.5	0.5	0.52 ± 0.20	19
Ce (ppm) #	95	100	100	88.2 ± 14.7	29
Co (ppm) #	29	31	30	27.3 ± 3.8	29
Cr (ppm) #	83	96	85	80.9 ± 8.8	29
Cs (ppm) #	2	2	2	2.3 ± 0.8	29
Cu (ppm) @	31	31	33	33.9 ± 2.9	19
Eu (ppm) #	1.6	1.7	1.7	1.53 ± 0.30	29
Fe (%) #	4.06	4.43	4.31	3.947 ± 0.371	29
Hf (ppm) #	6	6	6	5.2 ± 0.8	29
Hg (ppb) *	230	315	280	263.5 ± 28.0	25
La (ppm) #	54	58	55	51.2 ± 8.0	29
Lu (ppm) #	0.48	0.50	0.57	0.477 ± 0.092	29
Mn (ppm) @	1140	1146	1186	1323.6 ± 93.8	19
Mo (ppm) #	<1	<1	<1	2.8 ± 2.8	27
Na (%) #	1.68	1.76	1.71	1.644 ± 0.253	29
Nd (ppm) #	44	44	46	38.1 ± 7.7	29
Ni (ppm) @	40	40	41	49.8 ± 4.4	19
Pb (ppm) @	20	22	18	28.9 ± 5.0	18
Rb (ppm) #	86	79	58	67.1 ± 17.0	29
Sb (ppm) #	1.1	1.4	1.2	1.26 ± 0.23	29
Sc (ppm) #	12	13	13	11.5 ± 1.2	29
Sm (ppm) #	7.3	8.1	7.7	6.96 ± 1.25	29
Sn (ppm) @	1	<1	3	1.1 ± 0.7	13
Ta (ppm) #	<0.5	1.5	<0.5	<0.5	29
Tb (ppm) #	0.9	1.0	1.0	0.73 ± 0.34	29
Th (ppm) #	13	14	14	11.3 ± 1.6	29
U (ppm) #	5.2	6.4	5.0	4.26 ± 1.04	29
W (ppm) #	<1	<1	<1	<1	29
Yb (ppm) #	3.2	3.6	3.5	3.11 ± 0.53	29
Zn (ppm) @	113	115	117	137.8 ± 11.1	19

† Symbols indicate the analytical method (see Table 5)

Table 2-4. Analyses of standards: LKSD-4

Element †	LKSD-4					
	MA-D15	MA-L15	MA-W13b-1	MA-X15	Expected Value ± 1σ	No. of Analyses
Ag (ppm) @	<0.2	<0.2	<0.2	<0.2	0.31 ± 0.16	25
As (ppm) #	19	5.5	18	16	16.6 ± 1.8	38
Au (ppb) #	4	<2	<5	9	2.7 ± 2.8	38
Ba (ppm) #	550	160	330	410	379 ± 85	38
Br (ppm) #	62	18	51	53	52.5 ± 4.9	38
Ca (%) #	<1	<1	2	2	1.0 ± 0.7	38
Cd (ppm) @	1.5	2.0	1.5	1.5	1.82 ± 0.44	25
Ce (ppm) #	64	21	62	54	52.2 ± 5.5	38
Co (ppm) #	13	3	10	11	11.1 ± 1.5	38
Cr (ppm) #	50	11	36	37	34.9 ± 4.5	38
Cs (ppm) #	2	<1	<2	1	1.4 ± 0.8	38
Cu (ppm) @	23	29	26	26	29.8 ± 2.5	25
Eu (ppm) #	1.7	0.5	1.2	1.5	1.33 ± 0.17	38
Fe (%) #	3.62	1.16	3.08	3.01	3.031 ± 0.228	38
Hf (ppm) #	4	1	3.4	4	3.1 ± 0.6	38
Hg (ppb) *	195	200	230	170	159.9 ± 38.2	31
La (ppm) #	35	9.9	30	30	28.2 ± 1.5	38
Lu (ppm) #	0.48	0.16	0.57	0.43	0.412 ± 0.050	38
Mn (ppm) @	318	376	326	348	465.4 ± 43.3	25
Mo (ppm) #	<1	<1	<5	<1	9.5 ± 10.7	34
Na (%) #	0.69	0.20	0.59	0.58	0.578 ± 0.054	38
Nd (ppm) #	34	12	26	24	26.0 ± 6.1	38
Ni (ppm) @	24	28	23	25	33.1 ± 2.4	25
Pb (ppm) @	70	80	72	76	92.4 ± 7.3	25
Rb (ppm) #	37	53	<30	29	28.7 ± 13.5	38
Sb (ppm) #	2.3	0.5	1.4	1.8	1.79 ± 0.21	38
Sc (ppm) #	8.8	2.7	7.4	7.4	7.13 ± 0.42	38
Sm (ppm) #	5.0	1.8	4.6	4.3	4.63 ± 0.57	38
Sn (ppm) @	3	<1	3	3	3.3 ± 0.9	15
Ta (ppm) #	<0.5	<0.5	<1	<0.5	<0.5	38
Tb (ppm) #	<0.5	<0.5	1.0	0.6	0.55 ± 0.38	38
Th (ppm) #	7.8	2.1	5.7	6.1	5.61 ± 0.56	38
U (ppm) #	46	12	35	38	32.8 ± 3.7	38
W (ppm) #	<1	<1	<4	<1	<1	38
Yb (ppm) #	3.3	0.9	2.81	2.7	2.45 ± 0.23	38
Zn (ppm) @	132	154	145	143	179.5 ± 14.2	25

† Symbols indicate the analytical method (see Table 5)

Table 3. Replication of duplicate samples

ELEMENT	Average % deviation from the mean *		ELEMENT	Average % deviation from the mean*	
	Anal. Dupl.	Field Dupl.		Anal. Dupl.	Field Dupl.
Ag (ICP)	0 †	0 †	Mn (ICP)	2.0	14.6
As (INAA)	4.4	5.7	Mo (INAA)	0 †	14.3
Au (INAA)	24.3	25.5	Na (INAA)	2.1	1.0
Ba (INAA)	10.1	6.9	Nd (INAA)	8.1	3.0
Br (INAA)	23.1	20.1	Ni (ICP)	2.2	2.4
Ca (INAA)	3.0	6.7	Pb (ICP)	4.8	9.0
Cd (ICP)	3.0	0 †	Rb (INAA)	5.5	5.0
Ce (INAA)	3.8	1.2	Sb (INAA)	7.2	9.2
Co (INAA)	4.4	8.7	Sc (INAA)	2.1	2.8
Cr (INAA)	2.8	6.0	Sm (INAA)	3.0	1.2
Cs (INAA)	2.8	6.9	Sn (fusion-ICP)	10.1	0.0
Cu (ICP)	2.4	11.6	Ta (INAA)	26.7	42.9
Eu (INAA)	3.3	2.1	Tb (INAA)	15.3	11.2
Fe (INAA)	2.9	3.0	Th (INAA)	3.2	1.8
Hf (INAA)	5.5	2.1	U (INAA)	6.9	7.6
Hg (CV-AAS)	12.3	7.3	W (INAA)	32.6	18.3
La (INAA)	2.5	0.8	Yb (INAA)	2.6	2.5
Lu (INAA)	3.6	4.5	Zn (ICP)	2.5	4.3

* - the average of the percent deviation from the mean value of the pair of analyses for each sample (e.g., if duplicate analyses return values of 1 and 3 for an element, there is a 50% deviation from the mean value of 2; if duplicate values are identical, there is 0% deviation from the mean)

† - all values for this element were below the detection limit

Table 4. Field and Laboratory Observations Legend

RECORD	TEXT CODE	DEFINITION
Sample ID	MA	McAdam map area (NTS 21 G/11)
	-A	Westernmost grid line (UTM easting 618000)
	-X	Easternmost grid line (UTM easting 656000)
	01	Northernmost grid line (UTM northing 5067000)
	14	Southernmost grid line (UTM northing 5041000)
Replicate Status	0	Routine sample site
	1	First of a site duplicate pair
	2	Second of a site duplicate pair
Sampled By		- initials of senior person at the site
	AAS	Allen Seaman
	AJS	Andrew Stumpf
	GB	Garrett Bell
	TDW	Tracey Wood
Date Sampled	199x/xx/xx	Year/Month/Day
Mapsheet	21 G/11	McAdam National Topographic System map area
UTM Easting	xxxxxx	NAD 27 - measured to the nearest 25 m, from the location plotted on the map
UTM Northing	xxxxxxx	NAD 27 - measured to the nearest 25 m, from the location plotted on the map
Elevation	xxx	m - estimated from the contour lines on the NTS topographic map
Material	aT	Ablation till
	bT	Basal till (lodgement or meltout)
	dT	Deformation till
	GF	Glaciofluvial sediment
	rk	Weathered bedrock
Compactness	L	Loose
	mL	Moderately loose
	sC	Slightly compact
	mC	Moderately compact
	C	Compact
	vC	Very Compact
	eC	Extremely compact
	K	Cemented
	n/r	not recorded
Drainage	R	Rapidly drained
	W	Well drained
	M	Moderately well drained
	I	Imperfectly drained
	P	Poorly drained
	V	Very poorly drained
	n/r	not recorded
Depth to Base	xx	cm - depth from the top of the mineral soil to the base of the excavated section, or to the base of the sampled unit in a multi-unit section
Bedrock at Base	N	Bedrock not encountered in section
	Y	Bedrock at the base of the section

Stone Coverage	x/y 1 2 3 4 5	x – stones 25 to 100 cm in size y – stones >100 cm in size <1 % 1-3 % 4-15 % 16-50 % >50 %
Colour		Munsell soil colour
Gravel	 0 (g) g G (k) k (kg)	- based on visual estimates Minimal gravel or cobble content Slightly gravelly (~ <20% gravel) Gravelly (~20-50% gravel) Very gravelly (~ >50% gravel) Slightly cobbly (~ <20% cobbles) Cobbly (~ 20-50% cobbles Both slightly cobbly and slightly gravelly
Sand	%	Percentage of sand-size material (0.05-2 mm) in the sub-gravel fraction of the sample
Silt	%	Percentage of silt-size material (0.0035-0.05 mm) in the sub-gravel fraction of the sample
Clay	%	Percentage of clay-size material (<0.0035 mm) in the sub-gravel fraction of the sample
Clastic Seds.	%	Percentage of pebbles derived from clastic sedimentary and metasedimentary rocks
Granitic	%	Percentage of pebbles derived from felsic intrusive rocks (granite to granodiorite)
Gabbroic	%	Percentage of pebbles derived from mafic intrusive rocks (gabbro to diorite)
Mafic Volc.	%	Percentage of pebbles derived from mafic volcanic rocks or diabase
M-F Volc.	%	Percentage of pebbles derived from intermediate or indeterminate (mostly tuffaceous) volcanic rocks
Felsic Volc.	%	Percentage of pebbles derived from felsic volcanic rocks; includes chert
Quartz	%	Percentage of pebbles composed primarily of vein quartz

Underlying Rock Unit*		
	Carboniferous	
		Cumberland Group
	CCc	Grey to greyish green quartzose sandstone and quartz-pebble conglomerate; minor red sandstone, grey or red mudstone, coal, carbonaceous mudstone and fossiliferous limestone
		Mabou Group
	CSNc	*Shin Formation:* Greyish red conglomerate, arkosic sandstone and mudstone; minor calcrete
	Devonian	
		Harvey Group
	DHMfv	*Harvey Mountain Formation:* Buff to reddish brown, ash-flow and ash-fall tuff, and flow-banded rhyolite; minor breccia
	DCHvs	*Cherry Hill Formation:* Brownish green ignimbrite; purple quartz-feldspar porphyry, ash-fall and lapilli tuff; green siltstone and volcaniclastic sedimentary rocks
	DYMvs	*York Mills Formation:* Red to green sandstone and siltstone; minor green, lithic and lapilli tuff
		Pokiok Batholith
	DHii	*Hawkshaw Granite:* Grey, coarse-grained equigranular to porphyritic biotite granodiorite
	$DHfi_b$	*Hawkshaw Granite:* Pink, medium- to coarse-grained, hiatal, megacrystic biotite granite
	DHfim	*Hawkshaw Granite:* Pink, medium- to coarse-grained, hiatal, muscovite-biotite granite
	DSLfib	*Skiff Lake Granite:* Pink, fine- to coarse-grained equigranular to seriate, biotite granite
	DSLfim	*Skiff Lake Granite:* Grey, coarse-grained porphyritic muscovite-biotite granite
	Silurian	
		Kingsclear Group
	SBUc	*Burtts Corner Formation:* Light grey, medium- to coarse-grained, generally noncalcareous, lithic and feldspathic wacke grading to dark grey, interlaminated siltstone and shale
	SFRc	*Flume Ridge Formation:* Light grey to greyish green, fine- to medium-grained, micaceous, generally calcareous, feldspathic wacke grading to dark grey, interlaminated noncalcareous siltstone and shale
	Ordovician	
	OHAc	*Halls Brook Formation:* Black pelite and light grey psammite

* - Unit boundaries and descriptions were derived from McLeod et al. (1998); however, unit designations have been updated to current standards.

Table 5. Geochemical data legend.

CODE	DEFINITION
Rep Stat	Replicate status
0	Routine sample site
1	First of a site duplicate pair
2	Second of a site duplicate pair
8	Laboratory (blind) duplicate
#	Instrumental neutron activation analysis (INAA)
@	Inductively-coupled plasma emission spectrometry (ICP)
*	Cold vapour atomic absorption spectrometry (CV-AAS)

Appendix 1. McAdam (NTS 21 G/11):

Site Location, Site Characteristics and Geological Data

McAdam (NTS 21 G/11):
site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-A01	0	AAS	1991/07/22	21 G/11	617800	5067050	192
MA-A02	0	AAS	1991/07/16	21 G/11	618000	5065000	280
MA-A03a	0	AAS	1991/07/16	21 G/11	618000	5063000	220
MA-A03b	0	AAS	1991/07/16	21 G/11	618000	5063125	222
MA-A04	0	AAS	1992/07/24	21 G/11	618000	5061000	232
MA-A05a	0	AAS	1991/07/17	21 G/11	618000	5059000	153
MA-A05b	0	AAS	1994/09/27	21 G/11	618425	5059125	185
MA-A06a	0	AAS	1992/07/24	21 G/11	617475	5056775	120
MA-A06b	0	AAS	1992/08/07	21 G/11	618925	5057250	150
MA-A07	0	AAS	1992/07/28	21 G/11	617975	5055000	125
MA-A08	0	AJS	1993/08/06	21 G/11	618000	5053050	120
MA-A09	0	AJS	1993/08/06	21 G/11	618150	5051450	118
MA-B01	0	AAS	1992/07/20	21 G/11	619975	5066900	255
MA-B02a	0	AAS	1992/07/20	21 G/11	619950	5065400	193
MA-B02b	0	AAS	1993/09/14	21 G/11	619875	5065525	203
MA-B03	0	AAS	1991/07/16	21 G/11	620000	5063925	190
MA-B04	0	AAS	1991/07/22	21 G/11	620000	5060950	223
MA-B05	0	AAS	1991/07/12	21 G/11	620000	5059000	182
MA-B06	0	AAS	1991/07/17	21 G/11	619950	5056975	156
MA-B07	0	TDW	1992/08/05	21 G/11	619950	5055025	140
MA-B08	0	AAS	1992/07/28	21 G/11	619925	5053225	122
MA-B09	0	AJS	1993/08/06	21 G/11	619525	5051575	120
MA-C01	0	AAS	1991/07/10	21 G/11	621975	5067025	213
MA-C02	0	AAS	1992/07/23	21 G/11	622300	5064975	170
MA-C03	0	AAS	1992/07/22	21 G/11	621775	5063125	192
MA-C04	0	AAS	1992/07/22	21 G/11	622000	5061025	190
MA-C05	0	AAS	1991/07/23	21 G/11	622000	5059050	163
MA-C06a	0	AAS	1991/07/24	21 G/11	622000	5057000	148
MA-C06b	0	AAS	1991/07/24	21 G/11	622275	5057025	143
MA-C07	0	GB	1993/06/09	21 G/11	622150	5054900	182
MA-C08	0	AAS	1992/08/07	21 G/11	622225	5053150	128
MA-C09	0	TDW	1992/07/30	21 G/11	622000	5051025	127
MA-C10a	0	TDW	1992/07/30	21 G/11	622300	5049250	120
MA-C10b	0	AAS	1993/09/14	21 G/11	622425	5049600	129
MA-C11	0	GB	1993/06/11	21 G/11	622875	5046975	121
MA-C13a	0	AAS	1993/07/23	21 G/11	622325	5043000	113
MA-C13b	0	AAS	1993/09/28	21 G/11	622925	5043450	135
MA-D01	0	AAS	1991/07/23	21 G/11	623900	5067025	164
MA-D02	0	AAS	1991/07/10	21 G/11	624000	5065000	169
MA-D03	0	AAS	1991/07/12	21 G/11	624000	5063050	167
MA-D04a	0	AAS	1991/07/24	21 G/11	624000	5061050	184
MA-D04b	0	AAS	1991/07/25	21 G/11	623850	5061475	195
MA-D05	0	AAS	1991/07/25	21 G/11	624000	5059000	185
MA-D06	0	AAS	1993/08/19	21 G/11	623975	5057000	135

McAdam (NTS 21 G/11):
site location, site characteristics and geological data

Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-D07	0	GB	1993/06/17	21 G/11	624325	5054600	137
MA-D08	0	GB	1993/06/17	21 G/11	624075	5053350	170
MA-D09	0	AAS	1992/07/29	21 G/11	624025	5050975	140
MA-D10	0	GB	1993/06/15	21 G/11	623975	5049125	149
MA-D11	0	GB	1993/06/11	21 G/11	624100	5047025	129
MA-D12	0	GB	1993/08/09	21 G/11	624050	5045025	123
MA-D13	0	GB	1993/08/09	21 G/11	624000	5043000	123
MA-D14	0	GB	1993/08/11	21 G/11	624025	5041050	111
MA-E01	0	AAS	1991/07/11	21 G/11	625950	5067075	163
MA-E02	0	AAS	1992/07/23	21 G/11	626050	5064725	149
MA-E03	0	AAS	1991/07/19	21 G/11	625950	5063000	168
MA-E04a	0	AAS	1991/07/11	21 G/11	626000	5061000	167
MA-E04b	0	AAS	1993/08/19	21 G/11	625625	5061350	182
MA-E05	0	AAS	1991/07/11	21 G/11	626000	5059050	183
MA-E06	0	GB	1993/08/24	21 G/11	626175	5056925	158
MA-E07	0	AJS	1993/08/23	21 G/11	625950	5054650	131
MA-E08	0	AJS	1993/08/27	21 G/11	626000	5053000	151
MA-E09	0	AAS	1992/07/29	21 G/11	625950	5050900	160
MA-E10	0	TDW	1992/08/04	21 G/11	625975	5048975	215
MA-E11	0	GB	1993/06/15	21 G/11	626000	5047000	155
MA-E12	0	GB	1993/06/09	21 G/11	626050	5044975	158
MA-E13	0	GB	1993/08/09	21 G/11	626000	5043000	129
MA-E14	0	GB	1993/08/11	21 G/11	626225	5040725	125
MA-F01	0	GB	1993/06/23	21 G/11	628000	5067100	160
MA-F02	0	GB	1993/06/25	21 G/11	628100	5065050	150
MA-F03a	0	GB	1993/06/25	21 G/11	628025	5063000	145
MA-F03b	0	AAS	1993/09/14	21 G/11	627550	5062275	147
MA-F04	1	AAS	1992/07/23	21 G/11	628100	5061000	159
MA-F04	2	AAS	1992/07/23	21 G/11	628100	5061000	159
MA-F05	0	AAS	1992/08/06	21 G/11	628100	5059050	152
MA-F06	0	AAS	1992/08/06	21 G/11	628000	5056900	150
MA-F07	0	AJS	1993/08/23	21 G/11	628025	5054750	132
MA-F08	0	GB	1993/08/23	21 G/11	628075	5053075	172
MA-F09a	0	AJS	1993/08/16	21 G/11	627975	5050900	124
MA-F09b	0	AAS	1992/07/29	21 G/11	628050	5050200	187
MA-F10	0	AAS	1992/07/31	21 G/11	628025	5049000	210
MA-F11a	0	GB	1993/06/09	21 G/11	627950	5047075	145
MA-F11b	0	AAS	1993/10/06	21 G/11	627575	5047050	144
MA-F11c-1	0	AAS	1994/09/27	21 G/11	627575	5047063	145
MA-F11c-2	0	AAS	1994/09/27	21 G/11	627575	5047063	145
MA-F12	0	GB	1993/06/08	21 G/11	627850	5045050	145
MA-F13	1	GB	1993/06/08	21 G/11	627925	5043050	137
MA-F13	2	AAS	1993/09/28	21 G/11	627925	5043050	137
MA-F14	0	GB	1993/08/11	21 G/11	627750	5041075	128

McAdam (NTS 21 G/11):
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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-FG01	0	AAS	1994/10/07	21 G/11	629275	5066425	200
MA-G01	0	GB	1993/06/23	21 G/11	630200	5067025	205
MA-G02	0	GB	1993/06/29	21 G/11	630050	5064975	240
MA-G03	0	AAS	1993/06/18	21 G/11	630025	5063000	150
MA-G04	0	GB	1993/06/21	21 G/11	630000	5061000	141
MA-G05	0	GB	1993/07/05	21 G/11	630000	5058900	155
MA-G06	0	AAS	1993/07/15	21 G/11	629825	5056900	139
MA-G07	0	AAS	1991/07/19	21 G/11	629925	5054950	137
MA-G08	0	AJS	1993/08/23	21 G/11	630100	5053000	130
MA-G09	0	AJS	1993/08/17	21 G/11	630325	5050850	132
MA-G10a	0	GB	1993/06/15	21 G/11	629650	5049200	160
MA-G10b-1	0	AAS	1994/10/03	21 G/11	629800	5048675	158
MA-G10b-2	0	AAS	1994/10/03	21 G/11	629800	5048675	158
MA-G11a	0	GB	1993/06/11	21 G/11	630050	5047000	150
MA-G11b	0	AAS	1994/09/27	21 G/11	630375	5046625	150
MA-G12	0	AAS	1993/06/04	21 G/11	629950	5044650	135
MA-G13	0	GB	1993/06/02	21 G/11	630000	5043000	142
MA-G14a	0	AJS	1993/06/03	21 G/11	629950	5041350	132
MA-G14b	0	AAS	1993/09/28	21 G/11	630000	5041000	133
MA-H01	0	GB	1993/06/23	21 G/11	632075	5067125	190
MA-H02-1	0	AAS	1993/06/18	21 G/11	632050	5064900	200
MA-H02-2	0	AAS	1993/06/18	21 G/11	632050	5064900	200
MA-H03	0	GB	1993/06/28	21 G/11	632000	5063000	170
MA-H04a	0	AAS	1993/06/18	21 G/11	632075	5061075	165
MA-H04b	0	AAS	1993/06/18	21 G/11	631950	5061325	180
MA-H05	0	GB	1993/06/23	21 G/11	632100	5058900	140
MA-H06	0	GB	1993/06/21	21 G/11	632025	5056825	138
MA-H07	0	AJS	1993/08/24	21 G/11	632100	5055100	140
MA-H08a	0	AJS	1993/08/17	21 G/11	632300	5052575	139
MA-H08b	0	AAS	1993/09/29	21 G/11	632900	5052225	148
MA-H09	0	GB	1993/06/18	21 G/11	631875	5050950	157
MA-H10	0	GB	1993/06/18	21 G/11	632000	5049000	160
MA-H11	0	GB	1993/06/18	21 G/11	632150	5047175	139
MA-H12	0	AAS	1993/08/17	21 G/11	631500	5045350	131
MA-H13	0	AAS	1993/06/04	21 G/11	632000	5043175	137
MA-H14	0	GB	1993/06/08	21 G/11	631900	5040850	154
MA-K01	0	AAS	1993/06/16	21 G/11	634100	5067100	202
MA-K02	0	GB	1993/06/28	21 G/11	634000	5065000	243
MA-K03a-1	0	AAS	1993/06/16	21 G/11	633800	5063000	160
MA-K03a-2	0	AAS	1993/06/16	21 G/11	633800	5063000	160
MA-K03b	0	AAS	1994/10/07	21 G/11	634275	5063050	146
MA-K04	0	GB	1993/06/23	21 G/11	633400	5061425	137
MA-K05a	0	GB	1993/06/29	21 G/11	633975	5058750	125
MA-K05b	0	AAS	1993/09/29	21 G/11	633925	5058650	124

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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-K06	0	GB	1993/07/07	21 G/11	634000	5056925	129
MA-K07	0	GB	1993/06/29	21 G/11	633900	5054950	131
MA-K08	0	GB	1993/07/05	21 G/11	634000	5053000	180
MA-K09	0	GB	1993/06/30	21 G/11	634025	5051025	178
MA-K10	0	GB	1993/07/08	21 G/11	634000	5049000	151
MA-K11	0	GB	1993/06/18	21 G/11	634000	5047000	153
MA-K12	0	AJS	1993/07/29	21 G/11	634000	5044625	130
MA-K13	0	AJS	1993/07/21	21 G/11	634000	5042900	140
MA-K14	0	AAS	1993/08/17	21 G/11	633650	5041000	129
MA-L01a	0	AAS	1993/06/16	21 G/11	635975	5067050	250
MA-L01b-1	0	AJS	1994/08/01	21 G/11	636125	5067350	253
MA-L01b-2	0	AJS	1994/08/01	21 G/11	636125	5067350	253
MA-L02	0	GB	1993/06/28	21 G/11	636250	5065275	160
MA-L03a	0	GB	1993/06/28	21 G/11	636000	5063000	141
MA-L03b	0	AAS	1993/09/29	21 G/11	635850	5063100	148
MA-L04a	0	GB	1993/06/22	21 G/11	635775	5060650	128
MA-L04b-1	0	AAS	1993/09/15	21 G/11	636050	5060350	135
MA-L04b-2	0	AAS	1993/09/15	21 G/11	636050	5060350	135
MA-L05	0	GB	1993/06/22	21 G/11	636200	5059300	145
MA-L06	0	GB	1993/07/07	21 G/11	635800	5056850	131
MA-L07	0	AAS	1993/07/22	21 G/11	635950	5054975	128
MA-L08	0	GB	1993/07/07	21 G/11	636100	5052975	160
MA-L09	0	GB	1993/06/21	21 G/11	636225	5051000	160
MA-L10	0	AAS	1993/05/31	21 G/11	635950	5048950	153
MA-L11	0	AAS	1993/08/03	21 G/11	636025	5046925	152
MA-L12	0	AJS	1993/07/20	21 G/11	635950	5045050	143
MA-L13-1	0	AJS	1993/07/20	21 G/11	635775	5043100	135
MA-L13-2	0	AJS	1993/07/20	21 G/11	635775	5043100	135
MA-L14	0	GB	1993/07/22	21 G/11	636075	5040350	128
MA-M01	1	AAS	1993/06/14	21 G/11	638050	5067000	152
MA-M01	2	AAS	1993/06/14	21 G/11	638050	5067000	152
MA-M02a	0	AAS	1993/06/14	21 G/11	637850	5064975	153
MA-M02b	0	AAS	1993/06/14	21 G/11	638200	5065200	160
MA-M03a	0	AAS	1993/06/14	21 G/11	638000	5063150	122
MA-M03b	0	AAS	1994/06/17	21 G/11	637900	5063475	124
MA-M04	0	AJS	1993/08/12	21 G/11	637925	5061350	120
MA-M05	0	AJS	1993/08/12	21 G/11	637775	5058875	118
MA-M06	0	AAS	1993/06/08	21 G/11	638075	5057050	178
MA-M07	0	TDW	1992/08/05	21 G/11	637950	5055050	184
MA-M08	0	AAS	1993/06/08	21 G/11	638000	5052925	159
MA-M09	0	AAS	1993/08/03	21 G/11	637975	5050950	153
MA-M10	0	AAS	1993/05/31	21 G/11	638025	5048975	153
MA-M11a	0	AAS	1993/05/31	21 G/11	638025	5046900	174
MA-M11b	0	AAS	1994/10/03	21 G/11	637775	5046825	172

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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-M12	0	AJS	1993/07/26	21 G/11	638125	5045025	160
MA-M13	0	AJS	1993/07/21	21 G/11	638100	5043300	139
MA-M14	0	AJS	1993/07/29	21 G/11	637975	5041000	128
MA-N01a	0	AJS	1993/06/28	21 G/11	641100	5067125	126
MA-N01b	0	AJS	1993/08/13	21 G/11	639775	5066225	121
MA-N02	0	AJS	1993/08/13	21 G/11	639300	5064800	118
MA-N04	0	AJS	1993/08/13	21 G/11	640625	5061100	140
MA-N05	0	AJS	1993/06/11	21 G/11	640000	5059050	208
MA-N06	0	AAS	1993/07/16	21 G/11	640000	5057000	175
MA-N07a	0	AJS	1993/06/11	21 G/11	639900	5055050	152
MA-N07b	0	AAS	1993/09/17	21 G/11	640675	5055050	154
MA-N08a	0	GB	1993/06/22	21 G/11	639850	5053125	151
MA-N08b	0	AAS	1993/09/17	21 G/11	640450	5053175	150
MA-N09a	0	AJS	1993/08/27	21 G/11	640650	5051125	150
MA-N09b	0	AAS	1993/08/31	21 G/11	640475	5050750	151
MA-N10	0	GB	1993/07/08	21 G/11	639950	5048950	138
MA-N11a	0	AJS	1993/08/18	21 G/11	640375	5047500	140
MA-N11b	0	AAS	1994/09/26	21 G/11	640225	5046750	146
MA-N12	0	AJS	1993/07/19	21 G/11	640000	5045050	132
MA-N13	0	AJS	1993/07/20	21 G/11	639575	5042950	142
MA-N14	0	AJS	1993/08/03	21 G/11	640200	5040900	132
MA-NP14	0	AAS	1994/08/09	21 G/11	640925	5041575	141
MA-P01	0	AJS	1993/06/28	21 G/11	642075	5067000	164
MA-P02	0	AJS	1993/06/29	21 G/11	641950	5065050	141
MA-P03a	0	AJS	1993/06/29	21 G/11	641975	5062875	119
MA-P03b	0	AJS	1993/06/29	21 G/11	642275	5062950	121
MA-P04	0	AJS	1993/06/11	21 G/11	642000	5061000	128
MA-P05	0	AJS	1993/06/04	21 G/11	641975	5058950	135
MA-P06	0	AJS	1993/06/04	21 G/11	642000	5057350	138
MA-P07	0	GB	1993/07/08	21 G/11	642150	5055000	138
MA-P08a	0	AJS	1993/06/30	21 G/11	642000	5053250	143
MA-P08b	0	AAS	1993/09/17	21 G/11	641925	5052525	147
MA-P09	0	AAS	1993/08/31	21 G/11	642100	5050975	151
MA-P10a	0	GB	1993/07/08	21 G/11	641925	5048950	150
MA-P10b	0	AAS	1994/10/03	21 G/11	641950	5048875	150
MA-P11	0	AJS	1993/07/08	21 G/11	642250	5046750	131
MA-P12	0	AJS	1993/07/19	21 G/11	641975	5044850	135
MA-P13a	0	AJS	1993/06/23	21 G/11	642025	5042950	141
MA-P13b	0	AAS	1994/10/06	21 G/11	641575	5043150	151
MA-P14	0	AJS	1993/07/26	21 G/11	641975	5041000	150
MA-Q01	0	AJS	1993/06/28	21 G/11	643850	5067200	152
MA-Q02a	0	AJS	1993/06/28	21 G/11	643850	5064950	149
MA-Q02b	0	AAS	1993/09/16	21 G/11	643775	5064975	149
MA-Q03	0	AJS	1993/06/29	21 G/11	643850	5062850	152

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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-Q04a	0	AJS	1993/07/15	21 G/11	644075	5061000	141
MA-Q04b	0	AAS	1994/08/11	21 G/11	643825	5060850	131
MA-Q05a	0	AJS	1993/06/04	21 G/11	644000	5059000	141
MA-Q05b-1	0	AAS	1994/10/04	21 G/11	643900	5058925	149
MA-Q05b-2	0	AAS	1994/10/04	21 G/11	643900	5058925	149
MA-Q06	0	AJS	1993/07/27	21 G/11	643775	5057100	130
MA-Q07	0	AJS	1993/06/30	21 G/11	643850	5055075	150
MA-Q08	0	AJS	1993/07/??	21 G/11	643750	5053200	153
MA-Q09	0	AAS	1993/07/16	21 G/11	644075	5051000	157
MA-Q10	0	AJS	1993/07/12	21 G/11	644050	5049000	155
MA-Q11	0	AJS	1993/07/08	21 G/11	644050	5047100	128
MA-Q12	0	AJS	1993/07/07	21 G/11	643925	5045375	125
MA-Q13	0	AJS	1993/07/19	21 G/11	643925	5043025	110
MA-Q14	0	AJS	1993/07/06	21 G/11	644025	5040925	128
MA-R01	0	AJS	1993/08/25	21 G/11	646175	5067025	148
MA-R02a	0	GB	1993/08/26	21 G/11	645975	5065000	139
MA-R02b	0	AAS	1993/09/16	21 G/11	645975	5064675	140
MA-R03	0	AJS	1993/06/25	21 G/11	646025	5063200	142
MA-R04	0	AJS	1993/07/15	21 G/11	645900	5060600	127
MA-R05	0	AJS	1993/08/10	21 G/11	646000	5059000	128
MA-R06	0	GB	1993/06/22	21 G/11	646025	5056800	115
MA-R07a	0	AJS	1993/07/13	21 G/11	645950	5054800	120
MA-R07b-1	0	AJS	1993/07/13	21 G/11	645900	5054600	146
MA-R07b-2	0	AJS	1993/07/13	21 G/11	645900	5054600	146
MA-R08	0	AAS	1993/06/09	21 G/11	645950	5053000	169
MA-R09	0	AJS	1993/07/13	21 G/11	646325	5050725	121
MA-R10	0	AAS	1993/07/09	21 G/11	646000	5049000	120
MA-R11	0	AJS	1993/07/12	21 G/11	646100	5047000	101
MA-R12a	0	AJS	1993/07/07	21 G/11	645175	5045475	99
MA-R12b	0	AAS	1993/07/09	21 G/11	645925	5045025	98
MA-R13	0	AJS	1993/07/06	21 G/11	645650	5042925	102
MA-R14	0	AJS	1993/07/06	21 G/11	645925	5041300	103
MA-S01	0	GB	1993/08/25	21 G/11	648100	5067025	153
MA-S02a	0	GB	1993/08/26	21 G/11	647550	5065000	138
MA-S02b	0	AAS	1993/09/16	21 G/11	647725	5066050	137
MA-S03a	0	AJS	1993/06/25	21 G/11	648000	5063150	146
MA-S03b	0	AAS	1993/09/22	21 G/11	647700	5063000	145
MA-S04a	0	AJS	1993/07/14	21 G/11	647900	5061025	137
MA-S04b	0	AJS	1993/06/23	21 G/11	648900	5060250	140
MA-S05a	0	AJS	1993/06/25	21 G/11	648125	5059050	125
MA-S05b	0	AAS	1993/09/22	21 G/11	648650	5058900	139
MA-S06a	0	AJS	1993/09/11	21 G/11	647950	5057000	107
MA-S06b-1	0	AAS	1993/10/07	21 G/11	647650	5057025	105
MA-S06b-2	0	AAS	1993/10/07	21 G/11	647650	5057025	105

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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-S07a	0	AJS	1993/07/28	21 G/11	648800	5055000	100
MA-S07b	0	AAS	1994/10/20	21 G/11	648875	5055050	104
MA-S08	1	AAS	1993/06/09	21 G/11	648000	5052825	103
MA-S08	2	AAS	1993/06/09	21 G/11	648000	5052825	103
MA-S09	0	AJS	1993/07/14	21 G/11	647725	5051000	106
MA-S10	0	AJS	1993/07/14	21 G/11	647950	5049075	98
MA-S11	0	AJS	1993/07/07	21 G/11	647100	5047000	92
MA-S12a	0	AJS	1993/07/06	21 G/11	648900	5044550	83
MA-S12b	1	AAS	1993/09/22	21 G/11	648950	5044600	83
MA-S12b	2	AAS	1993/09/22	21 G/11	648950	5044600	83
MA-S13	0	AJS	1993/07/08	21 G/11	649025	5043350	118
MA-S14	0	AJS	1993/06/23	21 G/11	647600	5040075	92
MA-T01	0	GB	1993/08/30	21 G/11	649875	5066975	150
MA-T02	0	GB	1993/08/30	21 G/11	649975	5064975	148
MA-T03	0	AJS	1993/07/27	21 G/11	650025	5063000	145
MA-T04	0	AJS	1993/06/30	21 G/11	650250	5060950	210
MA-T05-1	0	AJS	1993/06/25	21 G/11	649875	5059200	174
MA-T05-2	0	AJS	1993/06/25	21 G/11	649875	5059200	174
MA-T06	0	AJS	1993/08/11	21 G/11	650000	5056975	149
MA-T07	0	AJS	1993/08/24	21 G/11	649900	5055000	135
MA-T08	0	AJS	1993/07/28	21 G/11	649975	5053025	101
MA-T09	0	AJS	1993/08/10	21 G/11	650275	5050925	98
MA-T10a	0	AJS	1993/08/02	21 G/11	650025	5049000	96
MA-T10b	0	AJS	1993/08/03	21 G/11	650200	5049025	102
MA-T11	0	AJS	1993/07/12	21 G/11	650000	5046825	181
MA-T12a	0	AJS	1993/07/08	21 G/11	650300	5045275	140
MA-T12b	0	AAS	1993/07/09	21 G/11	649900	5044950	113
MA-T13	0	AJS	1993/08/04	21 G/11	650025	5043175	167
MA-T14	0	AJS	1993/08/04	21 G/11	649875	5041050	88
MA-V01	0	AJS	1993/08/26	21 G/11	652025	5066950	147
MA-V02a	0	AJS	1993/06/24	21 G/11	652100	5064900	155
MA-V02b	0	AAS	1993/09/22	21 G/11	652150	5064725	175
MA-V03	0	AJS	1993/06/24	21 G/11	652225	5063000	213
MA-V04	0	AJS	1993/06/15	21 G/11	652000	5060925	200
MA-V05	0	AJS	1993/06/15	21 G/11	652000	5059000	209
MA-V06	0	AJS	1993/06/16	21 G/11	652000	5057000	158
MA-V07	0	AJS	1993/06/16	21 G/11	652050	5055000	145
MA-V08	0	AJS	1993/06/16	21 G/11	651825	5052950	133
MA-V09a	0	AJS	1993/06/15	21 G/11	652050	5051250	190
MA-V09b	0	AAS	1993/09/20	21 G/11	651525	5050875	205
MA-V10	0	AJS	1993/06/14	21 G/11	652000	5049050	150
MA-V11	0	AJS	1993/06/14	21 G/11	652025	5047050	130
MA-V12	0	AJS	1993/08/05	21 G/11	652000	5045000	123
MA-V13a	0	AJS	1993/08/04	21 G/11	651950	5043050	150

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Sample ID	Replicate Status	Sampled By	Date Sampled	Mapsheet	UTM Easting (NAD27)	UTM Northing (NAD27)	Elevation (m)
MA-V13b	0	AAS	1993/09/20	21 G/11	652150	5042675	157
MA-V14	0	AAS	1993/06/02	21 G/11	652025	5040975	127
MA-W01	0	AJS	1993/06/21	21 G/11	654350	5067150	151
MA-W02	0	AJS	1993/06/17	21 G/11	654200	5064925	195
MA-W03	0	AJS	1993/06/17	21 G/11	653975	5063050	188
MA-W04	0	AJS	1993/06/24	21 G/11	653900	5060700	174
MA-W05	0	AJS	1993/06/17	21 G/11	654000	5059000	227
MA-W06	0	AJS	1993/06/17	21 G/11	654100	5057075	180
MA-W07	0	AJS	1993/06/30	21 G/11	654075	5055175	153
MA-W08a	0	AJS	1993/06/15	21 G/11	653950	5053000	153
MA-W08b-1	0	AAS	1994/10/05	21 G/11	654050	5052900	148
MA-W08b-2	0	AAS	1994/10/05	21 G/11	654050	5052900	148
MA-W08b-3	0	AAS	1994/07/28	21 G/11	654050	5052900	148
MA-W09	0	AJS	1993/06/14	21 G/11	654000	5051000	120
MA-W10	0	AJS	1993/06/14	21 G/11	653150	5049025	121
MA-W12	0	AJS	1993/08/05	21 G/11	653725	5044625	118
MA-W13a	0	AJS	1993/08/??	21 G/11	654000	5043000	123
MA-W13b	0	AAS	1994/10/05	21 G/11	654600	5043575	139
MA-W14	0	AAS	1993/07/02	21 G/11	654025	5041025	144
MA-X12	0	AAS	1993/07/30	21 G/11	656100	5044900	130
MA-X13	0	AAS	1993/07/30	21 G/11	656125	5043100	142
MA-X14	0	AJS	1993/08/05	21 G/11	656075	5040800	131

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Sample ID	Replicate Status	Mat-erial	Com-pact-ness	Drain-age	Depth to Base (cm)	Bedrock at Base	Stone Cover-age	Colour
MA-A01	0	bT	mC	M	57	N	2/3	2.5 Y 5/4
MA-A02	0	bT	L/mC	I	55	Y	4/3	2.5 Y 5/6
MA-A03a	0	bT	C	W	64	N	2/2	2.5 Y 5/6
MA-A03b	0	bT	eC	M	71	N	3/2	2.5 Y 5/4
MA-A04	0	bT	C/vC	M	74	N	3/2	2.5 Y 5/4
MA-A05a	0	bT	L/mC	W	98	N	2/1	2.5 Y 6/4
MA-A05b	0	bT	vC	W	81	N	3/1	2.5 Y 5/4
MA-A06a	0	aT	L/mC	R	95	N	2/2	2.5 Y 5/4
MA-A06b	0	bT	vC	M	59	N	4/4	2.5 Y 5/4
MA-A07	0	aT	mL	W	71	N	3/2	2.5 Y 5/4
MA-A08	0	bT	C	W	65	N	4/4	2.5 Y 5/6
MA-A09	0	bT	vC	P	69	N	1/2	2.5 Y 5/6
MA-B01	0	bT	vC	I	76	N	3/1	2.5 Y 4/4
MA-B02a	0	aT	mL	M	79	N	3/4	2.5 Y 5/4
MA-B02b	0	bT	vC	M	76	N	4/3	2.5 Y 5/4
MA-B03	0	bT	vC	W	79	N	3/2	2.5 Y 5/4
MA-B04	0	bT	mC	W	76	N	3/3	2.5 Y 5/6
MA-B05	0	bT	C	W	75	N	4/4	2.5 Y 5/6
MA-B06	0	bT	mC	W	70	N	2/2	2.5 Y 5/6
MA-B07	0	bT	vC	M	109	N	3/2	2.5 Y 4/4
MA-B08	0	aT	mL	W	78	N	2/2	2.5 Y 5/4
MA-B09	0	aT	C	W	79	N	3/3	2.5 Y 4/4
MA-C01	0	bT	vC	M	59	N	3/3	2.5 Y 5/4
MA-C02	0	bT	eC	M	72	N	4/4	2.5 Y 5/4
MA-C03	0	bT	mC	W	98	N	2/2	2.5 Y 5/4
MA-C04	0	bT	vC	M	68	N	4/4	2.5 Y 5/4
MA-C05	0	bT	eC	W	79	N	3/3	2.5 Y 5/4
MA-C06a	0	aT	mL	R	82	N	4/4	5 Y 6/3
MA-C06b	0	bT	C/vC	M	109	N	4/2	2.5 Y 5/4
MA-C07	0	bT	n/r	n/r	83	N	3/2	10 YR 4/6
MA-C08	0	bT	vC	M	116	N	3/3	2.5 Y 5/4
MA-C09	0	bT	C	M	73	N	3/2	2.5 Y 5/4
MA-C10a	0	aT	mC	W	68	N	1/1	n/r
MA-C10b	0	aT	mC/C	M	69	N	4/3	2.5 Y 5/4
MA-C11	0	aT	mC	W	81	N	4/2	10 YR 5/8
MA-C13a	0	aT	L	R	81	N	1/1	2.5 Y 4/4
MA-C13b	0	bT	mC	M	46	N	4/3	2.5 Y 5/4
MA-D01	0	bT	eC	M	64	N	2/2	2.5 Y 5/4
MA-D02	0	bT	vC	M	63	N	3/2	2.5 Y 5/4
MA-D03	0	bT	vC	I	66	N	3/4	2.5 Y 4/4
MA-D04a	0	aT	L	R	60	N	3/3	2.5 Y 5/4
MA-D04b	0	bT	eC	M	80	N	3/2	2.5 Y 5/4
MA-D05	0	bT	mC/C	W	76	N	4/3	2.5 Y 5/4
MA-D06	0	bT	vC	M	97	N	3/2	2.5 Y 6/4

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Sample ID	Replicate Status	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour
MA-D07	0	aT	n/r	M	72	N	4/4	2.5 Y 5/6
MA-D08	0	bT	vC	W	136	N	4/4	2.5 Y 5/4
MA-D09	0	bT	vC	M	79	N	2/2	2.5 Y 5/4
MA-D10	0	bT	sC	W	61	N	4/2	10 YR 4/6
MA-D11	0	bT	vC	I	75	N	4/2	5 Y 4/4
MA-D12	0	bT	mC	P	60	N	4/2	2.5 Y 5/4
MA-D13	0	aT	sC	W	89	N	3/2	2.5 Y 5/4
MA-D14	0	bT	C	M	85	N	3/2	10 YR 5/4
MA-E01	0	bT	vC	M	92	N	2/2	2.5 Y 5/4
MA-E02	0	bT	C	M	70	N	4/4	2.5 Y 5/4
MA-E03	0	bT	C	M	64	N	2/3	2.5 Y 5/4
MA-E04a	0	aT	sC	I	69	N	3/3	2.5 Y 5/4
MA-E04b	0	bT	eC	M	103	N	2/2	2.5 Y 5/4
MA-E05	0	bT	vC	M	73	N	3/2	2.5 Y 5/4
MA-E06	0	bT	C	M	62	N	4/4	2.5 Y 5/4
MA-E07	0	bT	sC	W	55	N	3/5	2.5 Y 6/4
MA-E08	0	aT	C	W	82	N	4/4	2.5 Y 6/6
MA-E09	0	bT	C	M	84	N	2/3	2.5 Y 5/4
MA-E10	0	bT	vC	M	65	N	3/3	2.5 Y 4/4
MA-E11	0	bT	vC	M	73	N	?/1	2.5 Y 5/6
MA-E12	0	bT	n/r	W	60	N	3/1	2.5 Y 5/6
MA-E13	0	aT	L	W	85	N	4/3	2.5 Y 5/6
MA-E14	0	bT	C	M	79	N	2/1	2.5 Y 5/6
MA-F01	0	bT	mC	M	78	N	2/3	2.5 Y 5/4
MA-F02	0	aT	L	W	112	N	5/4	2.5 Y 5/6
MA-F03a	0	aT	L	W	55	N	5/4	10 YR 4/6
MA-F03b	0	bT	C	M	67	N	4/3	2.5 Y 5/4
MA-F04	1	bT	eC	I	94	N	4/3	2.5 Y 5/4
MA-F04	2	bT	eC	I	94	N	4/3	2.5 Y 5/4
MA-F05	0	bT	vC	M	80	N	3/3	2.5 Y 5/4
MA-F06	0	bT	vC	M	88	N	3/4	2.5 Y 5/4
MA-F07	0	bT	C	W	69	N	3/5	2.5 Y 6/4
MA-F08	0	aT	sC	W	85	N	4/3	10 YR 6/3
MA-F09a	0	bT	vC	M	57	N	4/4	2.5 Y 6/6
MA-F09b	0	bT	vC	W	86	N	3/2	2.5 Y 5/4
MA-F10	0	bT	eC	M	61	N	3/4	2.5 Y 5/6
MA-F11a	0	aT	n/r	W	66	N	3/1	10 YR 3/6
MA-F11b	0	bT	C	M	143	N	2/1	2.5 Y 5/4
MA-F11c-1	0	bT	C	M	40	N	1/1	2.5 Y 5/4
MA-F11c-2	0	bT	C	M	75	N	n/a	2.5 Y 5/4
MA-F12	0	bT	eC	P	57	N	2/1	5 Y 5/3
MA-F13	1	bT	n/r	n/r	76	N	3/2	10 YR 4/6
MA-F13	2	bT	vC	n/r	76	N	n/r	10 YR 4/6
MA-F14	0	bT	sC	P	65	N	3/1	10 YR 5/8

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Sample ID	Replicate Status	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour
MA-FG01	0	bT	C	M	81	N	3/3	2.5 Y 5/4
MA-G01	0	aT	mC	M	149	N	2/1	2.5 Y 5/4
MA-G02	0	bT	sC	W	53	N	3/1	2.5Y 5/4
MA-G03	0	aT	n/r	W	124	N	4/4	2.5 Y 5/4
MA-G04	0	aT	n/r	R	121	N	4/4	2.5 Y 5/4
MA-G05	0	bT	vC	W	66	N	3/2	2.5 Y 5/6
MA-G06	0	bT	C	I	72	N	4/4	2.5 Y 5/2
MA-G07	0	bT	C	W	74	N	2/2	2.5 Y 5/4
MA-G08	0	bT	C	W	84	N	3/3	2.5 Y 6/4
MA-G09	0	bT	C	M	52	N	4/3	2.5 Y 5/6
MA-G10a	0	aT	sC	n/r	115	N	4/3	2.5 Y 5/4
MA-G10b-1	0	aT	n/r	M	82	N	3/1	2.5 Y 5/6
MA-G10b-2	0	bT	C	M	123	N	n/a	2.5 Y 5/4
MA-G11a	0	aT	sC	W	72	N	3/2	2.5 Y 5/6
MA-G11b	0	bT	C	M	72	N	2/1	2.5 Y 5/4
MA-G12	0	bT	C	M	77	N	1/2	2.5 Y 5/4
MA-G13	0	bT	n/r	M	59	N	1/1	2.5 Y 4/4
MA-G14a	0	bT	n/r	W	96	Y	3/2	2.5 Y 5/4
MA-G14b	0	bT	C	M	78	N	1/1	10 YR 5/4
MA-H01	0	bT	vC	I	136	N	3/2	2.5 Y 5/4
MA-H02-1	0	bT	n/r	M	83	N	4/3	2.5 Y 5/4
MA-H02-2	0	bT	n/r	M	173	N	n/a	2.5 Y 5/4
MA-H03	0	aT	L	W	63	N	5/3	10 YR 4/6
MA-H04a	0	aT	mL	W	125	N	4/3	2.5 Y 5/6
MA-H04b	0	bT	eC	M	112	N	5/4	2.5 Y 5/4
MA-H05	0	bT	mC	I	113	N	3/3	2.5 Y 5/4
MA-H06	0	bT	vC	P	46	N	1/1	2.5 Y 5/6
MA-H07	0	bT	vC	M	68	N	3/2	2.5 Y 5/6
MA-H08a	0	aT	C	W	77	N	3/3	2.5 Y 5/6
MA-H08b	0	bT	vC	M	76	N	3/1	2.5 Y 5/4
MA-H09	0	bT	sC	I	79	N	3/3	2.5 Y 4/6
MA-H10	0	bT	mC	M	65	N	3/3	2.5 Y 5/6
MA-H11	0	aT	mL	W	98	N	3/1	2.5 Y 5/4
MA-H12	0	bT	C	W	77	N	3/1	2.5 Y 6/4
MA-H13	0	bT	mC	M	68	N	3/1	2.5 Y 5/4
MA-H14	0	bT	n/r	M	70	N	3/2	10 YR 3/4
MA-K01	0	bT	vC	M	96	N	4/3	2.5 Y 5/4
MA-K02	0	bT	mC	M	55	N	3/2	2.5 Y 5/4
MA-K03a-1	0	aT	mL	W	71	N	4/3	2.5 Y 6/4
MA-K03a-2	0	aT	C	W	124	N	n/a	2.5 Y 5/4
MA-K03b	0	bT	C	M	86	N	3/3	2.5 Y 5/4
MA-K04	0	aT	vC	W	148	N	2/2	2.5 Y 4/4
MA-K05a	0	aT	L	W	83	N	4/3	2.5 Y 5/6
MA-K05b	0	bT	C	M	82	N	4/3	2.5 Y 4/4

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Sample ID	Replicate Status	Mat-erial	Com-pact-ness	Drain-age	Depth to Base (cm)	Bedrock at Base	Stone Cover-age	Colour
MA-K06	0	bT	mC	W	75	N	5/4	2.5 Y 5/6
MA-K07	0	bT	mC	M	68	N	5/3	2.5 Y 5/6
MA-K08	0	bT	mC	W	63	N	3/1	2.5 Y 5/6
MA-K09	0	bT	vC	I	66	N	4/3	2.5 Y 5/4
MA-K10	0	bT	sC	M	56	N	4/4	2.5 Y 5/6
MA-K11	0	bT	sC	W	89	N	2/2	2.5 Y 5/6
MA-K12	0	bT	C	P	71	N	3/2	10 YR 6/4
MA-K13	0	aT	mC	M	67	N	2/3	2.5 Y 5/4
MA-K14	0	bT	mC	M	77	N	3/1	2.5 Y 5/6
MA-L01a	0	bT	vC	M	91	N	4/4	2.5 Y 5/4
MA-L01b-1	0	bT	C	M	225	N	1/1	n/r
MA-L01b-2	0	bT	C/eC	M	235	N	n/a	n/r
MA-L02	0	bT	vC	M	111	N	4/3	2.5 Y 5/4
MA-L03a	0	bT	mC	W	57	N	4/3	2.5 Y 5/4
MA-L03b	0	bT	C	M	84	N	4/3	2.5 Y 5/4
MA-L04a	0	aT	n/r	W	259	N	5/5	10 YR 4/3
MA-L04b-1	0	aT	mC	W	124	N	4/4	2.5 Y 6/4
MA-L04b-2	0	bT	C	W	160	N	n/a	2.5 Y 4/4
MA-L05	0	aT	sC	I	106	N	5/5	10 YR 4/6
MA-L06	0	bT	mC	W	92	N	5/3	2.5 Y 5/6
MA-L07	0	bT	eC	M	64	N	2/1	2.5 Y 4/4
MA-L08	0	bT	vC	W	81	N	2/1	2.5 Y 4/4
MA-L09	0	bT	vC	n/r	50	N	1/2	2.5 Y 5/4
MA-L10	0	bT	C	M	81	N	1/2	2.5 Y 5/4
MA-L11	0	bT	mC	M	78	N	4/4	10 YR 5/4
MA-L12	0	aT	mC	M	90	N	3/2	2.5 Y 6/6
MA-L13-1	0	aT	mC	M	110	N	3/2	2.5 Y 5/6
MA-L13-2	0	aT	n/r	W	122	Y	n/a	10 YR 5/1
MA-L14	0	bT	C	W	61	N	2/2	2.5 Y 5/6
MA-M01	1	bT	vC	M	81	N	3/3	2.5 Y 5/4
MA-M01	2	bT	vC	M	81	N	3/3	2.5 Y 5/4
MA-M02a	0	aT	mL	R	97	N	2/1	2.5 Y 5/4
MA-M02b	0	bT	C	M	74	N	3/3	2.5 Y 5/4
MA-M03a	0	aT	mL	W	82	N	4/3	2.5 Y 5/4
MA-M03b	0	bT	C	M	92	N	2/3	2.5 Y 5/4
MA-M04	0	aT	sC	W	79	N	4/3	2.5 Y 5/6
MA-M05	0	aT	L	R	68	N	4/4	2.5 Y 6/4
MA-M06	0	aT	sC	W	66	N	4/4	2.5 Y 5/6
MA-M07	0	bT	vC/eC	M	65	N	5/4	2.5 Y 5/4
MA-M08	0	bT	vC	M	70	N	3/2	2.5 Y 5/4
MA-M09	0	bT	mC	M	70	N	2/2	2.5 Y 5/4
MA-M10	0	bT	C	M	67	N	3/2	10 YR 5/3
MA-M11a	0	aT	sC	W	78	N	1/1	10 YR 4/6
MA-M11b	0	bT	mC	M	70	N	1/1	2.5 Y 4/4

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Sample ID	Replicate Status	Mat-erial	Com-pact-ness	Drain-age	Depth to Base (cm)	Bedrock at Base	Stone Cover-age	Colour
MA-M12	0	aT	mC	W	103	N	2/1	2.5 Y 4/4
MA-M13	0	aT	mC	W	69	N	3/3	2.5 Y 5/6
MA-M14	0	aT	mC	W	78	N	2/2	5 Y 5/3
MA-N01a	0	GF	vC	W	76	N	2/1	2.5 Y 5/6
MA-N01b	0	aT	C	W	56	N	2/1	10 YR 5/8
MA-N02	0	bT	C	W	61	N	3/2	2.5 Y 5/6
MA-N04	0	aT	sC	W	65	N	4/3	10 YR 6/6
MA-N05	0	bT	mC	M	51	N	1/2	10 YR 3/6
MA-N06	0	bT	C	M	87	N	2/3	2.5 Y 6/4
MA-N07a	0	aT	mC	W	70	N	1/1	10 YR 5/8
MA-N07b	0	bT	C	M	108	N	3/1	2.5 Y 5/4
MA-N08a	0	aT	sC	M	258	N	3/1	10 YR 4/3
MA-N08b	0	bT	vC	W	85	N	2/1	2.5 Y 5/6
MA-N09a	0	aT	mC	W	217	N	3/2	2.5 Y 4/4
MA-N09b	0	bT	vC	I	78	N	2/1	2.5 Y 5/4
MA-N10	0	bT	vC	I	72	N	1/1	2.5 Y 5/4
MA-N11a	0	aT	mC	W	61	N	1/1	2.5 Y 6/4
MA-N11b	0	bT	C	M	79	N	2/1	2.5 Y 4/4
MA-N12	0	aT	mC	P	67	N	2/3	10 YR 3/6
MA-N13	0	aT	mC/C	M	84	N	3/3	2.5 Y 4/4
MA-N14	0	aT	mC	M	63	N	1/1	2.5 Y 5/6
MA-NP14	0	bT	vC	M	130	N	1/1	2.5 Y 5/4
MA-P01	0	bT	C	M	64	N	1/2	2.5 Y 5/4
MA-P02	0	bT	mC	M	65	N	2/2	2.5 Y 5/4
MA-P03a	0	aT	mC	W	130	N	3/2	2.5 Y 5/4
MA-P03b	0	bT	vC	W	66	N	2/2	2.5 Y 5/6
MA-P04	0	bT	mC	M	73	N	1/1	2.5 Y 5/6
MA-P05	0	aT	n/r	W	73	N	3/1	10 YR 4/6
MA-P06	0	aT	n/r	W	68	N	3/2	2.5 Y 5/6
MA-P07	0	bT	vC	P	45	N	3/2	10 YR 5/4
MA-P08a	0	aT	sC	W	67	N	2/1	2.5 Y 5/6
MA-P08b	0	bT	C	W	64	N	2/1	2.5 Y 5/4
MA-P09	0	bT	C	M	93	N	2/1	2.5 Y 5/6
MA-P10a	0	aT	sC	W	70	N	1/1	2.5 Y 5/6
MA-P10b	0	bT	C	M	72	N	1/1	10 YR 5/4
MA-P11	0	bT	vC	M	93	N	2/1	2.5 Y 5/4
MA-P12	0	bT	C	W	55	N	3/1	2.5 Y 4/4
MA-P13a	0	aT	sC	M	73	N	2/1	2.5 Y 5/6
MA-P13b	0	bT	vC	M	55	N	2/1	2.5 Y 5/4
MA-P14	0	bT	eC	R	63	N	3/2	10 YR 6/4
MA-Q01	0	bT	vC	W	56	N	1/1	2.5 Y 5/6
MA-Q02a	0	aT	mC	W	73	Y	2/1	2.5 Y 5/6
MA-Q02b	0	bT	C	I	82	N	n/r	2.5 Y 5/4
MA-Q03	0	bT	vC	W	69	N	2/2	2.5 Y 5/6

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Sample ID	Replicate Status	Mat-erial	Com-pact-ness	Drain-age	Depth to Base (cm)	Bedrock at Base	Stone Cover-age	Colour
MA-Q04a	0	aT	C	W	95	N	3/2	2.5 Y 5/6
MA-Q04b	0	bT	n/r	M	78	N	2/3	2.5 Y 5/4
MA-Q05a	0	aT	n/r	W	64	N	3/2	10 YR 3/6
MA-Q05b-1	0	aT	mL	W	75	N	1/1	2.5 Y 5/4
MA-Q05b-2	0	bT	vC	M	101	N	n/a	2.5 Y 5/4
MA-Q06	0	bT	C	M	84	N	1/1	5 YR 4/4
MA-Q07	0	bT	mC	n/r	76	N	2/1	2.5 Y 5/6
MA-Q08	0	bT	mC	W	67	N	1/1	2.5 Y 5/6
MA-Q09	0	bT	C	M	59	N	1/1	2.5 Y 5/4
MA-Q10	0	bT	mC	W	68	N	2/3	10 YR 5/4
MA-Q11	0	bT	eC	M	52	N	2/1	2.5 Y 5/6
MA-Q12	0	bT	mC	M	57	N	2/1	2.5 Y 5/6
MA-Q13	0	bT	C	M	63	N	1/1	10 YR 4/3
MA-Q14	0	bT	vC	W	65	N	2/2	10 YR 5/6
MA-R01	0	aT	mC	W	84	N	2/1	10 YR 6/4
MA-R02a	0	bT	C	V	69	N	2/2	2.5 Y 4/4
MA-R02b	0	bT	eC	M	74	N	2/1	10 YR 7/4
MA-R03	0	bT	vC	M	67	N	2/1	2.5 Y 5/4
MA-R04	0	bT	vC	M	47	N	3/2	5 Y 6/2
MA-R05	0	aT	sC	M	58	N	2/1	10 YR 5/3
MA-R06	0	aT	sC	W	91	N	3/1	2.5 Y 4/4
MA-R07a	0	bT	C	W	67	N	4/2	10 YR 3/6
MA-R07b-1	0	bT	mC	W	50	N	3/1	10 YR 4/4
MA-R07b-2	0	bT	mC	W	63	N	n/a	10 YR 3/6
MA-R08	0	bT	C	M	45	N	2/1	2.5 Y 5/4
MA-R09	0	aT	mC	W	75	N	3/1	10 YR 5/4
MA-R10	0	bT	mC	I	68	N	4/1	10 YR 5/4
MA-R11	0	bT	vC	W	63	N	1/1	10 YR 6/4
MA-R12a	0	bT	mC/C	M	54	N	2/1	2.5 Y 5/6
MA-R12b	0	bT	mC/vC	M	67	N	1/1	7.5 YR 4/6
MA-R13	0	bT	C	M	64	N	1/1	10 YR 5/6
MA-R14	0	bT	mC	M	69	N	1/1	10 YR 5/4
MA-S01	0	bT	vC	W	73	N	4/3	10 YR 4/4
MA-S02a	0	GF	n/r	W	110	N	3/2	2.5 Y 4/4
MA-S02b	0	bT	mC/C	n/r	73	N	1/2	2.5 Y 5/4
MA-S03a	0	aT	mC	W	100	N	2/1	2.5 Y 5/4
MA-S03b	0	aT	mC	W	70	N	3/2	10 YR 4/3
MA-S04a	0	bT	vC	M	69	N	2/1	2.5 Y 5/4
MA-S04b	0	bT	vC	M	228	N	3/2	2.5 Y 4/4
MA-S05a	0	GF	mC	W	60	N	2/1	2.5 Y 5/6
MA-S05b	0	bT	C	M	113	N	2/1	2.5 Y 5/4
MA-S06a	0	aT	sC	W	78	N	5/2	2.5 Y 5/4
MA-S06b-1	0	aT	mC	W	112	N	3/1	7.5 YR 4/4
MA-S06b-2	0	bT	C	I	199	N	n/a	2.5 Y 5/4

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Sample ID	Replicate Status	Material	Compactness	Drainage	Depth to Base (cm)	Bedrock at Base	Stone Coverage	Colour
MA-S07a	0	bT	vC	M	68	N	1/1	2.5 Y 5/6
MA-S07b	0	bT	mC/C	M	75	N	1/1	10 YR 5/4
MA-S08	1	bT	vC	M	62	N	1/1	10 YR 5/4
MA-S08	2	bT	vC	M	62	N	1/1	10 YR 5/4
MA-S09	0	bT	C	W	58	N	1/1	5 YR 4/4
MA-S10	0	bT	C	M	71	N	2/1	2.5 Y 4/2
MA-S11	0	bT	mC	W	62	N	2/1	2.5 Y 5/6
MA-S12a	0	rk	eC	n/r	87	Y	1/1	10 R 4/8
MA-S12b	1	bT	mC	W	59	N	3/1	7.5 YR 5/4
MA-S12b	2	bT	mC	W	59	N	3/1	7.5 YR 5/4
MA-S13	0	bT	vC	W	66	N	2/1	2.5 Y 5/6
MA-S14	0	bT	C	R	71	N	2/1	2.5 Y 5/6
MA-T01	0	bT	C	M	71	N	1/1	10 YR 5/6
MA-T02	0	bT	vC	I	61	N	3/1	10 YR 5/4
MA-T03	0	bT	C	W	74	N	2/1	2.5 Y 5/6
MA-T04	0	bT	n/r	M	67	N	2/1	2.5 Y 5/6
MA-T05-1	0	aT	mC	M	214	N	1/1	2.5 Y 5/6
MA-T05-2	0	bT	C	M	234	N	n/a	n/r
MA-T06	0	bT	vC/eC	W	53	N	3/3	5 YR 5/4
MA-T07	0	bT	vC	W	52	N	2/1	2.5 Y 5/6
MA-T08	0	bT	mC/C	W	64	N	3/1	10 YR 5/4
MA-T09	0	bT	C	W	72	N	2/1	10 YR 5/4
MA-T10a	0	aT	sC	W	72	N	1/1	2.5 Y 5/6
MA-T10b	0	bT	C	M	70	N	2/2	10 YR 4/6
MA-T11	0	bT	vC	M	64	N	3/2	5 YR 4/3
MA-T12a	0	aT	mC	W	51	N	3/2	2.5 Y 5/6
MA-T12b	0	bT	eC	M	99	N	3/2	10 YR 5/6
MA-T13	0	bT	mC	W	85	N	4/3	10 YR 5/4
MA-T14	0	bT	C	P	65	Y	3/2	2.5 YR 4/8
MA-V01	0	bT	eC	W	40	N	2/1	5 Y 5/4
MA-V02a	0	aT	mC/vC	W	76	N	1/1	2.5 Y 5/4
MA-V02b	0	bT	C	M	69	N	3/1	10 YR 5/4
MA-V03	0	bT	vC	P	54	N	2/1	2.5 Y 5/4
MA-V04	0	bT	vC	M	51	N	1/1	2.5 Y 4/6
MA-V05	0	bT	vC	P	52	N	1/1	2.5 Y 5/6
MA-V06	0	bT	sC	M	41	N	2/1	2.5 Y 5/4
MA-V07	0	bT	vC	I	36	N	2/1	10 YR 5/6
MA-V08	0	bT	mC	W	43	N	4/2	2.5 Y 5/6
MA-V09a	0	aT	mC	W	60	N	2/1	2.5 Y 5/6
MA-V09b	0	bT	vC	M	68	N	2/1	2.5 Y 6/4
MA-V10	0	bT	mC	W	53	Y	1/1	7.5 YR 5/6
MA-V11	0	bT	mC/vC	W	58	N	4/2	10 YR 6/4
MA-V12	0	bT	mC/vC	W	61	N	3/2	2.5 Y 4/4
MA-V13a	0	aT	sC/mC	W	50	N	4/4	10 YR 6/4

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Sample ID	Replicate Status	Mat-erial	Com-pact-ness	Drain-age	Depth to Base (cm)	Bedrock at Base	Stone Cover-age	Colour
MA-V13b	0	bT	C	M	79	N	2/1	2.5 Y 5/4
MA-V14	0	bT	mC	W	75	N	2/1	10 YR 5/4
MA-W01	0	bT	C	W	75	N	1/1	2.5 Y 5/6
MA-W02	0	bT	vC	W	59	N	1/1	2.5 Y 5/6
MA-W03	0	bT	C	M	57	N	1/1	10 YR 6/4
MA-W04	0	bT	mC/vC	M	83	N	2/1	2.5 Y 6/6
MA-W05	0	bT	C	W	52	N	1/1	2.5 Y 5/6
MA-W06	0	bT	mC	W	51	N	1/1	2.5 Y 5/6
MA-W07	0	bT	mC/vC	M	62	N	2/1	2.5 Y 5/6
MA-W08a	0	aT	mC	W	48	N	1/1	10 YR 4/6
MA-W08b-1	0	aT	L/mC	M	133	N	1/1	2.5 Y 5/4
MA-W08b-2	0	bT	C	M	148	N	n/a	2.5 Y 5/4
MA-W08b-3	0	dT	n/r	M	175	Y	n/a	n/r
MA-W09	0	bT	vC	W	39	N	2/1	2.5 Y 5/6
MA-W10	0	bT	mC	M	35	N	1/1	10 YR 3/4
MA-W12	0	aT	sC	W	64	N	3/2	2.5 Y 5/6
MA-W13a	0	aT	C	W	89	N	4/3	10 YR 4/4
MA-W13b	0	bT	C	I	41	N	1/2	2.5 Y 5/4
MA-W14	0	bT	vC	M	47	N	2/1	5 YR 4/3
MA-X12	0	bT	vC	I	47	N	4/5	2.5 Y 6/4
MA-X13	0	bT	vC	M	82	N	3/2	2.5 Y 5/6
MA-X14	0	bT	eC	M	81	N	2/1	2.5 Y 5/6

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-A01	0	(g)	49	43	8
MA-A02	0	(g)	49.5	45	5.5
MA-A03a	0	(k)g	88.5	10	1.5
MA-A03b	0	g	61	23.5	15.5
MA-A04	0	kg	59.5	27.5	13
MA-A05a	0	g	60.5	34.5	5
MA-A05b	0	g	65.5	26.5	8
MA-A06a	0	g	79.5	18	2.5
MA-A06b	0	g	55.5	32	12.5
MA-A07	0	kG	76.5	20.5	3
MA-A08	0	kg	52.5	31.5	16
MA-A09	0	g	55.5	31	13.5
MA-B01	0	g	61	26.5	12.5
MA-B02a	0	kg	49	44	7
MA-B02b	0	kg	49.5	31.5	19
MA-B03	0	g	64.5	22.5	13
MA-B04	0	(k)g	62	31	7
MA-B05	0	(k)g	68	26	6
MA-B06	0	g	57.5	33.5	9
MA-B07	0	g	52.5	27.5	20
MA-B08	0	kG	74	22.5	3.5
MA-B09	0	kg	83.5	14.5	2
MA-C01	0	(g)	52	30.5	17.5
MA-C02	0	kg	61	24	15
MA-C03	0	(k)g	84.5	13	2.5
MA-C04	0	g	62	23	15
MA-C05	0	kg	62.5	25.5	12
MA-C06a	0	(k)g	67	28.5	4.5
MA-C06b	0	g	58.5	32.5	9
MA-C07	0	0	64	28.5	7.5
MA-C08	0	g	52.5	28.5	19
MA-C09	0	g	61.5	33	5.5
MA-C10a	0	g	78	20	2
MA-C10b	0	g	59.5	34.5	6
MA-C11	0	g	75.5	17.5	7
MA-C13a	0	kG	79.5	15.5	5
MA-C13b	0	(g)	52.5	36	11.5
MA-D01	0	g	53	27	20
MA-D02	0	(g)	47	27.5	25.5
MA-D03	0	(k)g	59	27.5	13.5
MA-D04a	0	kG	60.5	31.5	8
MA-D04b	0	(k)g	62	22.5	15.5
MA-D05	0	kg	63	28.5	8.5
MA-D06	0	g	69.5	21	9.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-D07	0	g	72	22.5	5.5
MA-D08	0	g	62	23	15
MA-D09	0	g	56.5	27.5	16
MA-D10	0	n/r	65.5	26	8.5
MA-D11	0	(g)	56	32	12
MA-D12	0	n/r	50.5	38.5	11
MA-D13	0	kg	69.5	25.5	5
MA-D14	0	g	59	27.5	13.5
MA-E01	0	(k)g	52.5	28	19.5
MA-E02	0	kg	51	30.5	18.5
MA-E03	0	kg	58.5	22.5	19
MA-E04a	0	g	62.5	25	12.5
MA-E04b	0	g	63	15.5	21.5
MA-E05	0	(k)g	53.5	27	19.5
MA-E06	0	kg	58.5	27	14.5
MA-E07	0	kg	62.5	30.5	7
MA-E08	0	G	93.5	5	1.5
MA-E09	0	g	74	16.5	9.5
MA-E10	0	g	51	29.5	19.5
MA-E11	0	n/r	46.5	42	11.5
MA-E12	0	g	60.5	31	8.5
MA-E13	0	kg	75.5	19.5	5
MA-E14	0	g	57.5	32	10.5
MA-F01	0	kg	59.5	31	9.5
MA-F02	0	g	57.5	33	9.5
MA-F03a	0	kg	69	26	5
MA-F03b	0	g	58	28	14
MA-F04	1	kg	58	24	18
MA-F04	2	kg	59.5	23	17.5
MA-F05	0	g	61.5	23	15.5
MA-F06	0	(k)g	63	26.5	10.5
MA-F07	0	kg	61.5	24	14.5
MA-F08	0	kg	77	18.5	4.5
MA-F09a	0	kg	55	37	8
MA-F09b	0	g	68.5	22	9.5
MA-F10	0	(g)	59.5	24	16.5
MA-F11a	0	kg	84.5	13	2.5
MA-F11b	0	g	57	27.5	15.5
MA-F11c-1	0	g	54	25	21
MA-F11c-2	0	kg	68	23.5	8.5
MA-F12	0	(g)	54	29.5	16.5
MA-F13	1	g	65.5	27	7.5
MA-F13	2	g	67	26	7
MA-F14	0	g	47.5	41	11.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-FG01	0	g	54.5	31.5	14
MA-G01	0	kg	73	21	6
MA-G02	0	kg	63	24.5	12.5
MA-G03	0	kG	81	15.5	3.5
MA-G04	0	kg	89.5	9	1.5
MA-G05	0	(g)	49.5	30	20.5
MA-G06	0	g	58.5	26	15.5
MA-G07	0	g	70	22	8
MA-G08	0	g	55.5	30.5	14
MA-G09	0	g	59.5	28	12.5
MA-G10a	0	kg	70.5	24.5	5
MA-G10b-1	0	(k)g	67.5	26	6.5
MA-G10b-2	0	g	64	24	12
MA-G11a	0	g	64.5	25	10.5
MA-G11b	0	g	63.5	24	12.5
MA-G12	0	kg	61.5	27	11.5
MA-G13	0	(k)g	67.5	20	12.5
MA-G14a	0	kg	63	32.5	4.5
MA-G14b	0	g	65	25.5	9.5
MA-H01	0	kg	65	22.5	12.5
MA-H02-1	0	kg	67.5	23.5	9
MA-H02-2	0	kg	65	23.5	11.5
MA-H03	0	kg	74.5	16.5	9
MA-H04a	0	kG	74.5	19	6.5
MA-H04b	0	kg	58.5	26.5	15
MA-H05	0	kg	54.5	31	14.5
MA-H06	0	g	44	29.5	26.5
MA-H07	0	kg	50	29.5	20.5
MA-H08a	0	(k)g	86	12	2
MA-H08b	0	g	69	20.5	10.5
MA-H09	0	g	60	26.5	13.5
MA-H10	0	k(g)	49.5	30.5	20
MA-H11	0	g	75.5	21.5	3
MA-H12	0	kg	66	23.5	10.5
MA-H13	0	g	63	24.5	12.5
MA-H14	0	g	59	30	11
MA-K01	0	kg	57.5	25	17.5
MA-K02	0	g	62	26	12
MA-K03a-1	0	kg	71.5	21.5	7
MA-K03a-2	0	g	69.5	24.5	6
MA-K03b	0	kg	52	26.5	21.5
MA-K04	0	kg	82.5	15	2.5
MA-K05a	0	g	77	19	4
MA-K05b	0	g	47.5	28	24.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-K06	0	kg	56.5	36.5	7
MA-K07	0	(g)	50.5	36	13.5
MA-K08	0	g	52	28.5	19.5
MA-K09	0	(g)	59	28.5	12.5
MA-K10	0	g	63	28.5	8.5
MA-K11	0	g	59.5	31	9.5
MA-K12	0	kg	58	31.5	10.5
MA-K13	0	g	70.5	24	5.5
MA-K14	0	g	62	30.5	7.5
MA-L01a	0	kg	56.5	25	18.5
MA-L01b-1	0	kg	54	25.5	20.5
MA-L01b-2	0	kg	57.5	24.5	18
MA-L02	0	g	52	26.5	21.5
MA-L03a	0	kg	58	28	14
MA-L03b	0	(k)g	58	25.5	16.5
MA-L04a	0	kg	82	15.5	2.5
MA-L04b-1	0	kG	83.5	14	2.5
MA-L04b-2	0	g	56.5	29	14.5
MA-L05	0	g	67.5	21	11.5
MA-L06	0	(g)	61	26.5	12.5
MA-L07	0	g	48.5	28	23.5
MA-L08	0	g	59.5	22	18.5
MA-L09	0	kg	45	27	28
MA-L10	0	kg	51.5	25.5	23
MA-L11	0	g	51.5	34	14.5
MA-L12	0	kg	75.5	22	2.5
MA-L13-1	0	g	62.5	23.5	14
MA-L13-2	0	kg	81.5	13	5.5
MA-L14	0	g	51	36.5	12.5
MA-M01	1	g	65.5	20	14.5
MA-M01	2	g	65.5	20	14.5
MA-M02a	0	(k)g	85	13	2
MA-M02b	0	g	69.5	20	10.5
MA-M03a	0	kG	78.5	16	5.5
MA-M03b	0	(k)g	66	22.5	11.5
MA-M04	0	kg	73	22.5	4.5
MA-M05	0	kg	76.5	21	2.5
MA-M06	0	kg	85	12	3
MA-M07	0	g	61.5	30	8.5
MA-M08	0	kg	65	26.5	8.5
MA-M09	0	g	59.5	31	9.5
MA-M10	0	g	51	27.5	21.5
MA-M11a	0	g	78.5	18	3.5
MA-M11b	0	g	53.5	28	18.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-M12	0	kg	80.5	16	3.5
MA-M13	0	kg	70	21	9
MA-M14	0	g	58.5	38	3.5
MA-N01a	0	kg	83	15.5	1.5
MA-N01b	0	g	81	16.5	2.5
MA-N02	0	g	70	21	9
MA-N04	0	kg	48	47.5	4.5
MA-N05	0	kg	65	28.5	6.5
MA-N06	0	g	63.5	27.5	9
MA-N07a	0	kg	68.5	26	5.5
MA-N07b	0	g	52.5	34	13.5
MA-N08a	0	g	70	25.5	4.5
MA-N08b	0	g	52	33.5	14.5
MA-N09a	0	kg	76	20.5	3.5
MA-N09b	0	kg	47	28.5	24.5
MA-N10	0	0	61.5	32	6.5
MA-N11a	0	g	68	25	7
MA-N11b	0	g	45.5	26.5	28
MA-N12	0	kg	77	17.5	5.5
MA-N13	0	g	60.5	34	5.5
MA-N14	0	kg	62.5	31.5	6
MA-NP14	0	g	50	27	23
MA-P01	0	g	46.5	26.5	27
MA-P02	0	g	54.5	30	15.5
MA-P03a	0	kg	79	18.5	2.5
MA-P03b	0	g	54	25.5	20.5
MA-P04	0	g	49.5	33	17.5
MA-P05	0	g	71	24	5
MA-P06	0	(k)g	78	19.5	2.5
MA-P07	0	0	39.5	41	19.5
MA-P08a	0	kg	63.5	28	8.5
MA-P08b	0	g	61.5	29.5	9
MA-P09	0	G	63.5	27	9.5
MA-P10a	0	(g)	69.5	26	4.5
MA-P10b	0	g	65	25.5	9.5
MA-P11	0	kg	54.5	27.5	18
MA-P12	0	g	65.5	25	9.5
MA-P13a	0	kg	66	28.5	5.5
MA-P13b	0	kg	61	28.5	10.5
MA-P14	0	g	62.5	28.5	9
MA-Q01	0	(g)	46.5	27	26.5
MA-Q02a	0	kg	62.5	26	11.5
MA-Q02b	0	g	54	30.5	15.5
MA-Q03	0	kg	52	25	23

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-Q04a	0	kg	72.5	19.5	8
MA-Q04b	0	g	44	27	29
MA-Q05a	0	kg	76.5	18	5.5
MA-Q05b-1	0	(k)G	73	22.5	4.5
MA-Q05b-2	0	g	50.5	31.5	18
MA-Q06	0	0	51.5	33	15.5
MA-Q07	0	kg	68.5	24.5	7
MA-Q08	0	kg	57	31.5	11.5
MA-Q09	0	g	51.5	32	16.5
MA-Q10	0	g	57.5	30	12.5
MA-Q11	0	kg	50.5	29	20.5
MA-Q12	0	g	64.5	25.5	10
MA-Q13	0	kg	59	30.5	10.5
MA-Q14	0	g	59	32.5	8.5
MA-R01	0	kg	66.5	26	7.5
MA-R02a	0	0	52.5	27.5	20
MA-R02b	0	kg	46	33	21
MA-R03	0	kg	44.5	38.5	17
MA-R04	0	kg	60.5	27.5	12
MA-R05	0	kG	72	22	6
MA-R06	0	g	75	20.5	4.5
MA-R07a	0	g	74.5	13.5	12
MA-R07b-1	0	kg	72	15	13
MA-R07b-2	0	g	79.5	15.5	5
MA-R08	0	g	56.5	26	17.5
MA-R09	0	kg	70.5	23	6.5
MA-R10	0	kg	53.5	32	14.5
MA-R11	0	g	55.5	27.5	17
MA-R12a	0	kg	57	32.5	10.5
MA-R12b	0	g	56.5	26.5	17
MA-R13	0	kg	43.5	30	26.5
MA-R14	0	g	49.5	32	18.5
MA-S01	0	g	53	33	14
MA-S02a	0	kg	92	5.5	2.5
MA-S02b	0	g	61	28.5	10.5
MA-S03a	0	kg	72.5	20	7.5
MA-S03b	0	G	69	21	10
MA-S04a	0	g	66.5	24.5	9
MA-S04b	0	0	43	26.5	30.5
MA-S05a	0	kg	91	6	3
MA-S05b	0	g	44	26.5	29.5
MA-S06a	0	kG	74	21.5	4.5
MA-S06b-1	0	kG	70	23	7
MA-S06b-2	0	g	58.5	26	15.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-S07a	0	g	45	43.5	11.5
MA-S07b	0	g	60.5	34	5.5
MA-S08	1	g	45	31	24
MA-S08	2	g	45.5	30	24.5
MA-S09	0	g	68	24	8
MA-S10	0	kg	61.5	35	3.5
MA-S11	0	g	76.5	20.5	3
MA-S12a	0	g	65.5	17.5	17
MA-S12b	1	g	77.5	17	5.5
MA-S12b	2	g	79.5	16	4.5
MA-S13	0	kg	52.5	31.5	16
MA-S14	0	0	69	24.5	6.5
MA-T01	0	g	51.5	29.5	19
MA-T02	0	kg	47.5	26.5	26
MA-T03	0	g	47	27	26
MA-T04	0	g	48.5	31	20.5
MA-T05-1	0	kg	86	10	4
MA-T05-2	0	g	53	24.5	22.5
MA-T06	0	g	57	29.5	13.5
MA-T07	0	kg	43.5	38.5	18
MA-T08	0	g	59.5	34.5	6
MA-T09	0	g	68	27.5	4.5
MA-T10a	0	kg	66	28	6
MA-T10b	0	g	63.5	29.5	7
MA-T11	0	kg	52.5	31	16.5
MA-T12a	0	(k)g	54	29.5	16.5
MA-T12b	0	g	63	25	12
MA-T13	0	kg	71.5	20.5	8
MA-T14	0	kg	54	26.5	19.5
MA-V01	0	0	59	26	15
MA-V02a	0	kg	47.5	29.5	23
MA-V02b	0	g	46.5	29	24.5
MA-V03	0	kg	50	25	25
MA-V04	0	g	54	26	20
MA-V05	0	0	45.5	27.5	27
MA-V06	0	g	48	30	22
MA-V07	0	kg	48.5	28	23.5
MA-V08	0	0	53	28	19
MA-V09a	0	g	64.5	29	6.5
MA-V09b	0	g	57.5	29.5	13
MA-V10	0	0	62	31.5	6.5
MA-V11	0	kg	58	33	9
MA-V12	0	kg	67.5	24	8.5
MA-V13a	0	kg	58.5	35	6.5

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Sample ID	Replicate Status	Gravel	Sand %	Silt %	Clay %
MA-V13b	0	(g)	43.5	37	19.5
MA-V14	0	g	56.5	32	11.5
MA-W01	0	0	42	28.5	29.5
MA-W02	0	g	48.5	28.5	23
MA-W03	0	g	46	28	26
MA-W04	0	kg	55.5	28	16.5
MA-W05	0	kg	48.5	28.5	23
MA-W06	0	kg	64	20	16
MA-W07	0	kg	49.5	26.5	24
MA-W08a	0	kg	78	17.5	4.5
MA-W08b-1	0	kg	72	18	10
MA-W08b-2	0	g	50.5	25.5	24
MA-W08b-3	0	g	54	32.5	13.5
MA-W09	0	0	51	31.5	17.5
MA-W10	0	g	56.5	32	11.5
MA-W12	0	kg	75.5	20	4.5
MA-W13a	0	kg	79.5	17.5	3
MA-W13b	0	g	55	29	16
MA-W14	0	g	53.5	25	21.5
MA-X12	0	0	25	54	21
MA-X13	0	(g)	62.5	24.5	13
MA-X14	0	kg	50.5	27	22.5

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-A01	0	6	82	8	2	2	DSLfim/DHii
MA-A02	0	23	51	16	10	0	DHii
MA-A03a	0	17	53	23	7	0	DHii
MA-A03b	0	17	57	15	10	0	DHii
MA-A04	0	12	48	30	9	1	DHii
MA-A05a	0	14	59	22	5	0	DHii
MA-A05b	0	41	34	14	8	2	DHii
MA-A06a	0	23	30	34	11	2	DSLfim
MA-A06b	0	26	33	30	11	0	DHii
MA-A07	0	27	31	23	17	2	DSLfim
MA-A08	0	16	52	22	9	0	DSLfim
MA-A09	0	40	17	37	5	0	DSLfim
MA-B01	0	16	58	16	9	1	DHii
MA-B02a	0	12	67	14	6	0	DHii/DHfib
MA-B02b	0	14	60	20	6	0	DHii
MA-B03	0	10	69	14	7	0	DHfib
MA-B04	0	25	25	33	15	2	DHfib
MA-B05	0	16	39	32	13	0	DHfib
MA-B06	0	16	48	22	8	6	DHfib
MA-B07	0	13	47	31	7	1	DSLfim/DHfib
MA-B08	0	16	30	40	14	0	DSLfim
MA-B09	0	27	20	39	14	0	DSLfim
MA-C01	0	28	44	20	8	0	DHii/DHfib
MA-C02	0	5	85	8	2	0	DHfib
MA-C03	0	4	72	19	5	0	DHfib
MA-C04	0	8	59	26	7	0	DHfib
MA-C05	0	5	70	20	5	0	DHfib
MA-C06a	0	12	46	34	8	0	DHfib
MA-C06b	0	10	51	31	8	0	DHfib
MA-C07	0	5	63	26	5	0	DHfib
MA-C08	0	12	43	41	4	0	DHfib
MA-C09	0	11	39	41	10	0	SBUc
MA-C10a	0	14	39	39	4	4	SBUc
MA-C10b	0	18	36	38	6	2	SBUc
MA-C11	0	9	33	51	7	0	SBUc
MA-C13a	0	89	1	8	2	0	SBUc
MA-C13b	0	15	44	38	3	0	SBUc
MA-D01	0	17	31	41	11	1	DHfib
MA-D02	0	21	30	41	6	2	DHfib
MA-D03	0	9	59	27	4	1	DHfib
MA-D04a	0	8	68	22	2	0	DHfib
MA-D04b	0	5	63	26	5	1	DHfib
MA-D05	0	2	74	20	4	0	DHfib
MA-D06	0	12	56	28	4	0	DHfib

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-D07	0	6	59	26	8	1	DHfib
MA-D08	0	7	57	29	7	0	DHfib
MA-D09	0	58	11	28	3	0	DHfib
MA-D10	0	14	48	30	6	2	DHfib/SBUc
MA-D11	0	37	30	28	2	2	SBUc
MA-D12	0	26	28	34	8	4	SBUc
MA-D13	0	54	17	26	3	0	SBUc
MA-D14	0	30	23	40	5	1	SBUc/OHAc
MA-E01	0	7	47	38	4	3	DHfib
MA-E02	0	5	70	23	2	0	DHfib
MA-E03	0	7	50	35	7	1	DHfib
MA-E04a	0	9	37	49	3	2	DHfim
MA-E04b	0	11	49	32	6	1	DHfib/DHfim
MA-E05	0	2	64	29	5	0	DHfib
MA-E06	0	3	77	16	2	2	DHfib
MA-E07	0	8	76	13	3	0	DHfib
MA-E08	0	33	67	0	0	0	DHfib
MA-E09	0	5	63	25	7	1	DHfib
MA-E10	0	29	8	54	8	1	DHfib/SBUc
MA-E11	0	27	23	48	2	0	SBUc
MA-E12	0	18	23	55	3	1	SBUc
MA-E13	0	21	27	46	5	0	SBUc
MA-E14	0	16	38	41	5	2	SFRc
MA-F01	0	4	51	38	5	2	DHfib
MA-F02	0	1	95	4	0	0	DHfib
MA-F03a	0	3	83	12	2	0	DHfib/DHfim
MA-F03b	0	4	73	18	4	0	DHfim
MA-F04	1	5	65	27	3	0	DHfim
MA-F04	2						
MA-F05	0	11	47	35	5	2	DHfib
MA-F06	0	4	59	32	4	1	DHfib
MA-F07	0	19	62	15	4	0	DHfib
MA-F08	0	3	92	4	1	0	DHfib
MA-F09a	0	6	73	19	1	0	DHfib
MA-F09b	0	4	73	23	1	0	DHfib
MA-F10	0	12	54	30	4	0	SBUc
MA-F11a	0	23	22	54	1	0	SBUc
MA-F11b	0	11	53	31	6	0	SBUc
MA-F11c-1	0	79	11	4	4	2	SBUc
MA-F11c-2	0	60	14	20	6	0	SBUc
MA-F12	0	28	40	28	0	4	SBUc
MA-F13	1	15	30	52	2	1	SFRc/CSNc
MA-F13	2						
MA-F14	0	52	11	36	1	0	CSNc

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-FG01	0	27	60	8	5	0	DHfib
MA-G01	0	3	67	28	2	0	DHfib
MA-G02	0	2	80	17	1	0	DHfib
MA-G03	0	2	75	19	4	0	DHfim
MA-G04	0	6	61	28	5	0	DHfim/DHfib
MA-G05	0	6	47	40	6	0	DHfib
MA-G06	0	12	45	41	2	0	DHfib
MA-G07	0	3	61	33	2	0	DHfib
MA-G08	0	2	74	24	0	0	DHfib
MA-G09	0	15	61	18	6	0	DHfib
MA-G10a	0	6	74	18	2	0	SBUc
MA-G10b-1	0	62	32	2	0	4	SBUc
MA-G10b-2	0	52	42	2	4	0	SBUc
MA-G11a	0	18	44	36	2	0	SBUc
MA-G11b	0	51	30	12	7	0	SBUc
MA-G12	0	13	35	47	4	1	CSNc
MA-G13	0	27	26	43	4	0	CSNc/SFRc
MA-G14a	0	43	14	43	1	0	SFRc
MA-G14b	0	26	30	36	4	4	SFRc
MA-H01	0	7	75	18	0	0	DHfib
MA-H02-1	0	5	75	17	3	0	DHfim
MA-H02-2	0	6	74	18	2	0	DHfim
MA-H03	0	3	67	26	4	0	DHfim
MA-H04a	0	6	76	16	1	1	DHfib
MA-H04b	0	3	73	22	2	0	DHfib
MA-H05	0	4	61	31	4	0	DHfib
MA-H06	0	10	21	65	4	0	DHfib
MA-H07	0	4	50	43	4	0	DHfib
MA-H08a	0	6	79	12	3	0	DHfib
MA-H08b	0	5	53	36	6	0	DHfib/SBUc
MA-H09	0	4	66	28	2	0	SBUc
MA-H10	0	0	65	32	3	0	SBUc
MA-H11	0	22	28	48	2	0	SBUc/CSNc
MA-H12	0	13	40	43	4	0	CSNc
MA-H13	0	40	6	52	0	2	SFRc
MA-H14	0	31	30	35	1	2	SFRc
MA-K01	0	2	84	11	3	0	DHfib
MA-K02	0	2	82	14	2	0	DHfim
MA-K03a-1	0	3	79	14	3	0	DHfim
MA-K03a-2	0	13	67	13	6	1	DHfim
MA-K03b	0	30	51	9	7	3	DHfim
MA-K04	0	1	79	17	3	0	DHfib
MA-K05a	0	6	66	24	4	0	DHfib
MA-K05b	0	11	49	36	4	0	DHfib

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-K06	0	0	68	26	4	2	DHfib
MA-K07	0	0	92	6	2	0	DHfib
MA-K08	0	5	33	55	7	0	DHfib/SBUc
MA-K09	0	5	51	37	7	0	SBUc
MA-K10	0	4	71	22	3	0	SBUc/CSNc
MA-K11	0	22	48	26	4	0	SFRc
MA-K12	0	30	24	44	1	0	SFRc
MA-K13	0	24	32	44	0	0	SFRc
MA-K14	0	39	21	38	2	0	SFRc
MA-L01a	0	10	47	34	8	0	DHfim
MA-L01b-1	0	53	29	14	3	1	DHfim/DHfib
MA-L01b-2	0						
MA-L02	0	11	30	57	2	0	DHfim
MA-L03a	0	5	56	35	5	0	DHfib
MA-L03b	0	2	78	14	4	2	DHfib
MA-L04a	0	2	67	28	3	0	DHfib
MA-L04b-1	0	0	88	11	1	0	DHfib
MA-L04b-2	0	4	66	27	1	2	DHfib
MA-L05	0	1	86	12	1	0	DHfib
MA-L06	0	2	77	19	2	0	DHfib
MA-L07	0	3	60	35	3	0	DHfib/SBUc
MA-L08	0	5	36	57	2	0	SBUc
MA-L09	0	3	39	52	6	0	SBUc/CSNc
MA-L10	0	4	38	52	6	0	CSNc/SFRc
MA-L11	0	0	82	18	0	0	SFRc
MA-L12	0	1	46	48	4	0	SFRc
MA-L13-1	0	14	21	57	7	0	SFRc
MA-L13-2	0						SFRc
MA-L14	0	22	25	52	1	0	SFRc
MA-M01	1	1	38	54	6	1	DHfim
MA-M01	2						
MA-M02a	0	2	82	14	2	0	DHfim/DHfib
MA-M02b	0	6	65	29	0	0	DHfim
MA-M03a	0	2	71	26	1	0	DHfib
MA-M03b	0	16	63	16	3	1	DHfib
MA-M04	0	0	83	15	3	0	DHfib
MA-M05	0	0	91	9	0	0	DHfib
MA-M06	0	1	88	11	0	0	SBUc
MA-M07	0	2	43	51	4	0	SBUc
MA-M08	0	11	37	52	0	0	SBUc
MA-M09	0	45	22	31	2	0	CSNc/SFRc
MA-M10	0	15	37	43	3	3	SFRc
MA-M11a	0	15	33	49	4	0	SFRc
MA-M11b	0	66	23	6	3	2	SFRc

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-M12	0	16	35	48	2	0	SFRc
MA-M13	0	38	9	51	0	3	SFRc
MA-M14	0	36	16	44	4	0	SFRc
MA-N01a	0	0	96	4	0	0	DHfib
MA-N01b	0	3	56	37	3	1	DHfib
MA-N02	0	4	46	46	4	0	DHfib
MA-N04	0	1	55	41	1	1	SBUc
MA-N05	0	7	48	43	1	1	SBUc
MA-N06	0	8	46	42	4	0	SBUc
MA-N07a	0	4	47	48	0	1	SBUc
MA-N07b	0	8	47	41	4	0	SBUc
MA-N08a	0	5	44	46	5	0	CSNc
MA-N08b	0	12	33	49	4	1	CSNc
MA-N09a	0	33	37	27	3	1	SFRc
MA-N09b	0	11	23	59	3	3	SFRc
MA-N10	0	24	34	42	0	0	SFRc
MA-N11a	0	37	23	35	4	1	SFRc
MA-N11b	0	66	10	14	8	2	SFRc
MA-N12	0	21	28	49	1	1	SFRc
MA-N13	0	44	20	36	0	0	SFRc
MA-N14	0	42	18	39	0	0	SFRc
MA-NP14	0	52	21	17	6	4	CSNc
MA-P01	0	18	27	53	2	0	DHfib/SBUc
MA-P02	0	6	62	27	6	0	SBUc
MA-P03a	0	24	18	57	1	0	SBUc
MA-P03b	0	10	45	42	3	0	SBUc
MA-P04	0	12	49	39	0	0	SBUc
MA-P05	0	29	23	48	0	0	SBUc
MA-P06	0	50	21	26	1	2	SBUc
MA-P07	0	53	9	38	0	0	CSNc
MA-P08a	0	44	30	24	2	0	SFRc
MA-P08b	0	41	18	31	2	8	SFRc
MA-P09	0	73	7	14	1	5	SFRc
MA-P10a	0	30	19	45	0	6	SFRc
MA-P10b	0	80	7	3	2	8	SFRc
MA-P11	0	48	23	23	1	6	CSNc
MA-P12	0	30	27	40	3	0	SFRc/CSNc
MA-P13a	0	20	34	44	2	0	CSNc
MA-P13b	0	72	12	13	1	2	CSNc
MA-P14	0	30	34	28	4	4	CSNc
MA-Q01	0	6	36	58	0	0	SBUc
MA-Q02a	0	38	20	42	0	0	SBUc
MA-Q02b	0	36	18	40	4	2	SBUc
MA-Q03	0	19	39	41	1	0	SBUc

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MA-Q04a	0	6	46	46	1	1	SBUc
MA-Q04b	0	44	35	13	8	0	SBUc
MA-Q05a	0	45	9	43	1	1	SBUc
MA-Q05b-1	0	61	23	7	5	4	SBUc
MA-Q05b-2	0	79	10	6	3	2	SBUc
MA-Q06	0	48	28	24	0	0	SBUc/CSNc
MA-Q07	0	35	30	35	0	0	SFRc
MA-Q08	0	37	31	27	0	4	SFRc
MA-Q09	0	62	20	6	2	10	SFRc
MA-Q10	0	25	24	47	2	2	CSNc
MA-Q11	0	24	34	40	2	0	CSNc
MA-Q12	0	35	25	35	1	4	CSNc
MA-Q13	0	80	6	14	0	0	CSNc
MA-Q14	0	25	44	22	3	6	CSNc
MA-R01	0	43	18	36	0	4	SBUc
MA-R02a	0						SBUc
MA-R02b	0	72	15	13	0	0	SBUc
MA-R03	0	52	24	21	1	1	SBUc
MA-R04	0	33	32	33	1	1	SBUc
MA-R05	0	20	24	46	10	1	SBUc/CSNc
MA-R06	0	31	20	37	12	0	SFRc/CSNc
MA-R07a	0	28	38	28	5	0	CSNc
MA-R07b-1	0	32	25	39	3	1	CSNc
MA-R07b-2	0	28	34	32	4	2	CSNc
MA-R08	0	17	47	33	3	0	CSNc
MA-R09	0	24	9	19	46	1	CSNc
MA-R10	0	19	41	29	11	0	CSNc
MA-R11	0	13	39	41	4	2	CSNc
MA-R12a	0	54	12	28	6	0	CSNc
MA-R12b	0	45	16	31	6	2	CSNc
MA-R13	0	23	12	50	14	0	CSNc
MA-R14	0	40	18	37	5	0	CSNc
MA-S01	0	30	31	31	5	3	SBUc
MA-S02a	0	20	32	37	8	2	SBUc
MA-S02b	0	60	25	15	0	0	SBUc
MA-S03a	0	46	24	27	3	0	SBUc
MA-S03b	0	55	22	18	3	2	SBUc
MA-S04a	0	29	24	42	4	1	SBUc
MA-S04b	0	38	20	35	6	1	DYMvs
MA-S05a	0	50	22	22	8	0	SFRc
MA-S05b	0	22	33	39	7	0	DYMvs/CSNc
MA-S06a	0	30	24	39	6	1	CSNc
MA-S06b-1	0	44	16	17	22	0	CSNc
MA-S06b-2	0	31	24	26	18	0	CSNc

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Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-S07a	0	36	26	30	6	2	CSNc
MA-S07b	0	50	12	22	15	1	CSNc
MA-S08	1	35	28	29	8	0	CSNc
MA-S08	2						
MA-S09	0	64	15	17	3	2	CSNc
MA-S10	0	58	15	23	4	0	CSNc
MA-S11	0	57	17	15	10	1	CSNc
MA-S12a	0						CSNc
MA-S12b	1	42	20	30	8	0	CSNc
MA-S12b	2						CSNc
MA-S13	0	55	18	21	6	0	CCc
MA-S14	0	52	25	19	4	0	CSNc
MA-T01	0	47	20	26	6	1	SBUc
MA-T02	0	55	16	23	5	1	SBUc
MA-T03	0	34	12	44	10	0	SBUc/DYMvs
MA-T04	0	33	23	31	13	0	DCHvs/DHMfv
MA-T05-1	0	50	18	21	11	0	DHMfv/CSNc
MA-T05-2	0						
MA-T06	0	81	5	7	6	0	CSNc
MA-T07	0	48	9	27	15	0	CSNc
MA-T08	0	37	29	29	6	0	CSNc
MA-T09	0	48	26	22	2	2	CSNc
MA-T10a	0	53	22	20	5	0	CSNc
MA-T10b	0	52	8	28	8	4	CSNc
MA-T11	0	29	6	55	10	0	CCc
MA-T12a	0	75	9	11	4	1	CCc
MA-T12b	0	70	15	12	3	0	CCc
MA-T13	0	54	21	20	5	1	CCc
MA-T14	0	95	1	3	1	0	CSNc
MA-V01	0	59	6	18	18	0	SBUc
MA-V02a	0	63	16	16	5	0	DCHvs
MA-V02b	0	57	11	12	21	0	DCHvs
MA-V03	0	57	14	18	10	1	DHMfv
MA-V04	0	41	21	27	7	4	DHMfv/CSNc
MA-V05	0	33	27	33	6	0	CSNc
MA-V06	0	60	14	17	5	4	CSNc
MA-V07	0	46	19	25	10	0	CSNc
MA-V08	0	50	20	22	9	0	CSNc
MA-V09a	0	42	18	30	9	1	CCc
MA-V09b	0	51	16	29	4	0	CCc
MA-V10	0	52	17	20	11	0	CCc
MA-V11	0	60	11	22	7	0	CCc
MA-V12	0	38	20	31	10	0	CCc
MA-V13a	0	71	12	14	3	0	CCc

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site location, site chara cteristics and geological data

Sample ID	Replicate Status	Clastic Seds. %	Granitic %	Mafic Volc. %	Felsic Volc. %	Quartz %	Underlying Rock Unit
MA-V13b	0	46	16	30	4	4	CCc
MA-V14	0	57	9	27	6	1	CCc
MA-W01	0	43	17	34	5	1	SBUc/DYMvs
MA-W02	0	41	13	36	9	1	DCHvs/DHMfv
MA-W03	0	18	20	46	16	0	CSNc
MA-W04	0	55	12	22	11	0	CSNc
MA-W05	0	39	15	37	8	1	CSNc/CCc
MA-W06	0	38	21	29	13	0	CCc
MA-W07	0	39	22	23	14	1	CCc
MA-W08a	0	55	16	18	8	3	CCc
MA-W08b-1	0	47	18	21	13	1	CCc
MA-W08b-2	0	60	10	20	10	0	CCc
MA-W08b-3	0	93	5	2	0	0	CCc
MA-W09	0	41	18	25	16	0	CCc
MA-W10	0	40	15	31	12	2	CCc
MA-W12	0	53	23	17	5	1	CCc
MA-W13a	0	74	13	7	6	0	CCc
MA-W13b	0	60	17	10	12	2	CCc
MA-W14	0	59	12	20	6	3	CCc
MA-X12	0	52	12	28	8	0	CCc
MA-X13	0	52	15	18	12	3	CCc
MA-X14	0	43	13	27	16	0	CSNc

Appendix 2. McAdam (NTS 21 G/11):

Analytical Data

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-A01	0	bT	<0.2	11	<2	390	10	<1	<0.5	130	12	100	3
MA-A02	0	bT	<0.2	220	<2	250	15	<1	<0.5	77	9	95	6
MA-A02	8	bT	<0.2	240	<2	290	16	<1	0.5	85	11	110	6
MA-A03a	0	bT	<0.2	16	<2	480	45	2	<0.5	140	13	90	3
MA-A03b	0	bT	<0.2	13	<2	560	<0.5	<1	<0.5	120	15	88	5
MA-A04	0	bT	<0.2	8.7	13	480	11	<1	<0.5	110	11	86	5
MA-A05a	0	bT	<0.2	11	<2	560	9.1	<1	<0.5	130	12	75	4
MA-A05b	0	bT	<0.2	8	<5	440	<1	<1	<0.5	120	8	62	3
MA-A06a	0	aT	<0.2	8.0	<2	370	27	<1	<0.5	120	8	81	3
MA-A06b	0	bT	<0.2	12	<2	520	4.7	<1	<0.5	140	16	100	5
MA-A07	0	aT	<0.2	8.3	<2	450	29	2	<0.5	140	11	84	4
MA-A08	0	bT	<0.2	8.1	11	650	4.2	<1	<0.5	130	13	93	6
MA-A09	0	bT	<0.2	11	<2	540	2.6	<1	<0.5	120	12	87	5
MA-B01	0	bT	<0.2	19	<2	460	4.8	<1	<0.5	150	17	110	4
MA-B02a	0	aT	<0.2	9.1	<2	430	12	<1	<0.5	95	9	98	4
MA-B02b	0	bT	<0.2	22	<2	570	4.8	<1	<0.5	140	16	100	5
MA-B03	0	bT	<0.2	17	<2	690	5.1	<1	<0.5	190	17	84	6
MA-B04	0	bT	<0.2	7.9	6	430	40	<1	<0.5	85	11	100	5
MA-B05	0	bT	0.8	15	<2	450	26	<1	0.5	140	10	80	4
MA-B06	0	bT	0.4	4.7	5	390	3.7	<1	<0.5	130	7	53	4
MA-B07	0	bT	0.2	10	<2	520	1.5	<1	<0.5	100	13	88	5
MA-B08	0	aT	<0.2	13	5	370	9.6	1	<0.5	130	13	88	3
MA-B09	0	aT	<0.2	13	<2	500	4.1	<1	<0.5	160	10	75	4
MA-C01	0	bT	<0.2	10	<2	490	5.1	<1	<0.5	130	13	110	4
MA-C01	8	bT	<0.2	14	<2	520	5.3	<1	<0.5	150	18	120	5
MA-C02	0	bT	<0.2	13	5	500	12	<1	<0.5	150	17	91	8
MA-C03	0	bT	<0.2	15	<2	530	8.8	<1	<0.5	180	11	47	2
MA-C04	0	bT	<0.2	10	6	500	8.5	<1	<0.5	130	17	85	6
MA-C05	0	bT	<0.2	11	3	580	9.8	<1	<0.5	140	18	94	6
MA-C06a	0	aT	<0.2	5.3	<2	420	15	<1	<0.5	110	8	66	4
MA-C06b	0	bT	<0.2	8.3	<2	440	<0.5	<1	0.5	130	8	58	4
MA-C07	0	bT	<0.2	8.5	<2	430	9.4	<1	<0.5	110	10	87	6
MA-C08	0	bT	<0.2	10	<2	430	<0.5	<1	<0.5	120	15	97	5
MA-C09	0	bT	<0.2	6.5	<2	270	38	<1	<0.5	87	6	68	4
MA-C10a	0	aT	<0.2	13	<2	350	21	<1	<0.5	130	12	87	4
MA-C10b	0	aT	<0.2	9.0	4	440	<0.5	<1	<0.5	110	9	70	3
MA-C11	0	aT	<0.2	23	<2	460	38	<1	<0.5	160	16	110	6
MA-C13a	0	aT	<0.2	17	3	490	24	<1	<0.5	140	15	120	6
MA-C13b	0	bT	0.6	9.1	3	470	5.4	<1	<0.5	120	12	90	4
MA-D01	0	bT	<0.2	14	<2	530	8.9	<1	<0.5	110	17	130	5
MA-D02	0	bT	<0.2	15	2	560	3.4	2	<0.5	96	18	150	5
MA-D03	0	bT	<0.2	32	<2	640	8.4	<1	<0.5	170	23	130	7
MA-D04a	0	aT	<0.2	12	2	510	5.2	<1	0.5	160	13	81	6
MA-D04b	0	bT	<0.2	14	6	710	2.5	<1	<0.5	160	16	89	7
MA-D05	0	bT	<0.2	12	3	470	7.9	<1	<0.5	190	11	77	7
MA-D06	0	bT	<0.2	14	<2	640	4.9	<1	<0.5	160	12	80	6

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-D07	0	aT	<0.2	8.4	<2	430	14	<1	<0.5	130	8	71	7
MA-D08	0	bT	<0.2	12	4	550	1.6	<1	<0.5	150	12	84	5
MA-D09	0	bT	<0.2	14	<2	620	2.5	<1	<0.5	120	17	130	5
MA-D10	0	bT	<0.2	4.6	<2	390	11	<1	<0.5	110	9	87	5
MA-D11	0	bT	<0.2	6.4	<2	560	2.8	<1	<0.5	110	11	100	4
MA-D12	0	bT	<0.2	6.9	<2	440	4.6	<1	<0.5	110	10	72	4
MA-D13	0	aT	<0.2	9.7	2	450	8.8	2	<0.5	130	12	83	4
MA-D14	0	bT	<0.2	11	<2	540	4.4	<1	<0.5	130	13	100	4
MA-E01	0	bT	<0.2	9.4	<2	490	<0.5	<1	<0.5	110	12	87	6
MA-E02	0	bT	<0.2	11	2	550	3.3	<1	<0.5	140	14	87	6
MA-E03	0	bT	0.8	11	<2	430	2.3	<1	<0.5	110	12	93	6
MA-E04a	0	aT	0.6	7.3	<2	400	3.9	<1	<0.5	110	11	92	5
MA-E04b-1	0	bT	0.4	12	<2	480	1.8	<1	<0.5	110	15	94	5
MA-E04b-2	0	bT-P	<0.2	14	<2	650	<0.5	<1	<0.5	150	16	110	7
MA-E05	0	bT	<0.2	13	2	490	1.9	1	<0.5	130	13	80	6
MA-E06	0	bT	<0.2	9.0	3	370	<0.5	<1	<0.5	130	14	66	5
MA-E06	8	bT	<0.2	10	4	590	2.0	<1	<0.5	160	15	75	5
MA-E07	0	bT	<0.2	8.1	<2	360	1.3	<1	<0.5	120	9	56	5
MA-E08	0	aT	<0.2	16	<2	320	29	<1	<0.5	130	14	72	3
MA-E09	0	bT	<0.2	12	2	390	18	<1	0.5	140	10	82	6
MA-E10	0	bT	<0.2	22	3	580	15	<1	<0.5	92	16	120	5
MA-E11	0	bT	<0.2	7.2	4	320	9.8	<1	<0.5	110	9	69	3
MA-E12	0	bT	<0.2	7.9	2	330	17	<1	<0.5	110	9	75	3
MA-E13	0	aT	<0.2	12	3	340	24	<1	<0.5	120	10	94	4
MA-E14	0	bT	<0.2	8.7	3	380	8.4	<1	<0.5	97	10	82	3
MA-F01	0	bT	<0.2	12	4	390	4.0	<1	<0.5	120	14	97	5
MA-F02	0	aT	<0.2	7.2	<2	320	3.4	<1	<0.5	100	10	72	9
MA-F03a	0	aT	<0.2	7.2	<2	360	9.6	<1	0.5	110	7	68	10
MA-F03b	0	bT	<0.2	8.4	<2	400	<0.5	<1	0.5	120	12	76	7
MA-F04	1	bT	<0.2	13	3	470	<0.5	<1	<0.5	120	15	90	8
MA-F04	2	bT	<0.2	12	2	540	<0.5	<1	<0.5	120	13	83	8
MA-F05	0	bT	<0.2	10	<2	540	5.2	<1	<0.5	120	14	100	6
MA-F06	0	bT	<0.2	12	<2	520	<0.5	<1	<0.5	150	12	75	5
MA-F07	0	bT	<0.2	35	<2	520	4.2	<1	<0.5	180	16	110	6
MA-F08	0	aT	<0.2	8.1	5	490	8.9	<1	<0.5	180	8	40	4
MA-F09a	0	bT	<0.2	7.4	5	410	3.0	<1	<0.5	170	8	57	5
MA-F09b	0	bT	<0.2	9.4	<2	570	3.6	2	<0.5	230	10	41	8
MA-F10	0	bT	<0.2	9.2	<2	480	<0.5	<1	<0.5	130	10	76	5
MA-F11a	0	aT	<0.2	17	<2	460	10	<1	<0.5	140	12	95	4
MA-F11b	0	bT	<0.2	11	4	630	<0.5	<1	<0.5	130	13	74	5
MA-F11c-1	0	bT	<0.2	13	6	420	5	<1	<0.5	130	11	100	4
MA-F11c-2	0	bT	<0.2	9	<5	410	<1	<1	<0.5	140	8	68	3
MA-F12	0	bT	<0.2	4.9	<2	550	3.3	<1	<0.5	110	12	110	4
MA-F13	1	bT	<0.2	5.3	<2	420	5.1	<1	<0.5	96	6	70	4
MA-F13	2	bT	<0.2	7.5	<2	380	5.4	<1	<0.5	94	7	61	3
MA-F14	0	bT	<0.2	5.3	4	400	9.8	<1	<0.5	94	7	89	5

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-FG01	0	bT	<0.2	9	<5	280	<1	<1	<0.5	100	9	69	4
MA-G01	0	aT	<0.2	11	<2	430	6.7	2	<0.5	120	12	71	4
MA-G01	8	aT	<0.2	11	3	360	6.2	1	<0.5	110	11	71	4
MA-G02	0	bT	<0.2	9.2	<2	420	24	<1	<0.5	120	12	77	9
MA-G03	0	aT	<0.2	12	4	340	7.0	<1	<0.5	120	13	76	6
MA-G04	0	aT	<0.2	10	<2	410	4.7	<1	<0.5	150	10	64	5
MA-G05	0	bT	<0.2	9.1	3	360	4.2	<1	<0.5	99	13	90	4
MA-G06	0	bT	<0.2	6.3	<2	480	1.8	<1	<0.5	100	13	100	5
MA-G07	0	bT	<0.2	10	<2	510	<0.5	<1	<0.5	150	12	77	5
MA-G08	0	bT	<0.2	9.7	<2	470	1.7	<1	<0.5	130	12	74	6
MA-G09	0	bT	<0.2	10	2	340	6.1	<1	<0.5	140	5	67	5
MA-G10a	0	aT	<0.2	8.5	<2	470	3.7	<1	<0.5	160	8	50	4
MA-G10b-1	0	aT	<0.2	11	<5	440	19	<1	<0.5	160	9	65	3
MA-G10b-2	0	bT	<0.2	9	<5	290	<1	<1	<0.5	130	9	61	3
MA-G11a	0	bT	<0.2	12	<2	430	6.9	<1	<0.5	130	11	69	4
MA-G11b	0	bT	<0.2	10	<5	410	<1	<1	<0.5	120	10	49	3
MA-G12	0	bT	<0.2	8.9	<2	390	1.7	<1	<0.5	110	11	64	3
MA-G13	0	bT	<0.2	7.9	<2	420	7.4	<1	<0.5	100	11	66	3
MA-G14a	0	bT	<0.2	15	3	400	1.7	<1	<0.5	96	13	65	3
MA-G14b	0	bT	<0.2	19	4	430	1.9	<1	<0.5	100	13	82	4
MA-H01	0	bT	<0.2	8.8	3	480	1.6	<1	<0.5	120	13	65	11
MA-H02-1	0	bT	<0.2	7.7	<2	400	5.8	<1	<0.5	120	11	61	7
MA-H02-2	0	bT	<0.2	8.9	4	380	<0.5	<1	<0.5	120	11	67	9
MA-H03	0	aT	<0.2	13	<2	360	13	<1	<0.5	120	14	94	12
MA-H04a	0	aT	<0.2	8.4	<2	470	1.0	1	<0.5	140	11	60	8
MA-H04b	0	bT	<0.2	8.7	5	520	<0.5	<1	<0.5	120	12	78	8
MA-H05	0	bT	<0.2	7.9	3	450	<0.5	<1	<0.5	120	11	78	5
MA-H06	0	bT	<0.2	9.5	3	500	2.0	<1	<0.5	93	13	110	4
MA-H07	0	bT	<0.2	9.1	3	510	2.3	<1	<0.5	110	12	82	5
MA-H08a	0	aT	<0.2	8.8	<2	360	2.9	<1	<0.5	120	9	69	5
MA-H08b	0	bT	<0.2	11	2	350	1.6	<1	<0.5	120	11	77	4
MA-H09	0	bT	<0.2	11	9	500	1.8	<1	<0.5	160	10	63	7
MA-H10	0	bT	<0.2	14	<2	520	3.7	<1	<0.5	120	16	92	5
MA-H11	0	aT	<0.2	15	3	420	10	<1	<0.5	120	9	60	3
MA-H12	0	bT	<0.2	8.7	3	460	9.7	<1	<0.5	110	10	70	3
MA-H13	0	bT	<0.2	25	7	430	1.9	<1	<0.5	110	15	94	5
MA-H14	0	bT	<0.2	12	<2	410	3.9	<1	<0.5	100	9	69	3
MA-K01	0	bT	<0.2	12	<2	520	2.0	<1	<0.5	130	15	93	12
MA-K02	0	bT	<0.2	8.4	4	430	5.6	<1	<0.5	120	11	69	8
MA-K03a-1	0	aT	<0.2	6.8	<2	300	5.4	<1	<0.5	100	8	50	6
MA-K03a-2	0	aT	<0.2	7.2	<2	380	3.4	<1	<0.5	110	8	54	7
MA-K03b	0	bT	<0.2	12	<5	460	<1	<1	<0.5	110	11	84	6
MA-K04	0	aT	<0.2	6.8	<2	470	2.2	1	<0.5	160	9	60	8
MA-K05a	0	aT	<0.2	9.5	<2	350	3.4	<1	<0.5	110	9	70	6
MA-K05b	0	bT	<0.2	12	4	440	1.6	<1	<0.5	93	13	94	6
MA-K06	0	bT	<0.2	6.8	4	370	2.1	<1	<0.5	110	8	73	4

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-K06	8	bT	<0.2	7.1	<2	290	2.6	<1	<0.5	110	7	72	4
MA-K07	0	bT	<0.2	8.1	<2	470	6.8	<1	<0.5	120	9	60	5
MA-K08	0	bT	<0.2	11	<2	480	6.5	<1	<0.5	88	12	91	4
MA-K09	0	bT	<0.2	5.2	6	360	7.7	<1	<0.5	91	9	72	3
MA-K10	0	bT	<0.2	6.7	<2	510	4.9	<1	<0.5	120	7	56	4
MA-K11	0	bT	<0.2	11	<2	570	18	<1	<0.5	140	9	83	3
MA-K12	0	bT	<0.2	21	2	580	19	<1	<0.5	130	10	110	3
MA-K13	0	aT	<0.2	10	5	260	14	<1	<0.5	110	12	69	3
MA-K14	0	bT	<0.2	13	<2	380	2.6	<1	<0.5	100	9	53	2
MA-L01a	0	bT	<0.2	10	<2	580	3.5	<1	<0.5	110	13	81	5
MA-L01b-1	0	bT	<0.2	8	<5	450	14	<1	<0.5	97	11	96	7
MA-L01b-2	0	bT	<0.2	13	<5	490	9	<1	<0.5	120	29	96	7
MA-L02	0	bT	<0.2	8.7	<2	500	2.8	2	<0.5	97	10	78	5
MA-L03a	0	bT	<0.2	5.9	<2	280	<0.5	<1	<0.5	100	9	67	3
MA-L03b	0	bT	<0.2	7.7	<2	520	<0.5	<1	<0.5	110	9	74	6
MA-L04a	0	aT	<0.2	7.2	<2	370	3.4	<1	<0.5	140	6	45	4
MA-L04b-1	0	aT	<0.2	7.6	<2	320	<0.5	2	<0.5	130	6	44	5
MA-L04b-2	0	bT	<0.2	11	2	520	<0.5	<1	<0.5	120	12	74	6
MA-L05	0	aT	<0.2	6.8	<2	510	<0.5	<1	<0.5	130	9	60	8
MA-L06	0	bT	<0.2	7.9	<2	240	1.5	<1	<0.5	110	10	66	5
MA-L07	0	bT	<0.2	12	3	420	<0.5	<1	<0.5	110	12	91	5
MA-L08	0	bT	<0.2	17	<2	550	1.5	<1	<0.5	91	14	100	4
MA-L09	0	bT	<0.2	11	<2	480	<0.5	<1	<0.5	95	13	90	3
MA-L10	0	bT	<0.2	11	<2	550	<0.5	<1	<0.5	100	11	76	4
MA-L11	0	bT	<0.2	4.2	<2	410	1.6	<1	<0.5	130	8	61	4
MA-L12	0	aT	<0.2	9.5	4	310	17	<1	<0.5	130	6	56	3
MA-L13-1	0	aT	<0.2	45	8	440	<0.5	<1	<0.5	81	23	90	4
MA-L13-2	0	aT	<0.2	22	5	500	1.5	<1	<0.5	110	22	81	4
MA-L14	0	bT	<0.2	16	2	400	1.8	<1	<0.5	110	13	74	3
MA-M01	1	bT	<0.2	10	2	430	3.4	<1	<0.5	100	11	82	4
MA-M01	2	bT	<0.2	11	<2	530	2.9	1	<0.5	100	11	85	5
MA-M02a	0	aT	<0.2	6.1	<2	360	6.0	<1	<0.5	200	9	43	8
MA-M02b	0	bT	<0.2	12	<2	610	1.9	<1	<0.5	150	15	77	8
MA-M03a	0	bT	<0.2	7.8	<2	500	3.3	<1	<0.5	130	9	53	7
MA-M03b	0	bT	<0.2	9	<5	510	2	<1	<0.5	140	11	63	8
MA-M04	0	aT	<0.2	5.4	<2	440	8.5	<1	<0.5	140	7	62	7
MA-M05	0	aT	<0.2	4.3	<2	500	2.5	<1	<0.5	180	8	41	7
MA-M06	0	aT	<0.2	8.9	<2	420	7.9	<1	<2	210	8	47	7
MA-M07	0	bT	<0.2	6.1	<2	430	5.2	2	<0.5	120	8	63	5
MA-M08	0	bT	<0.2	12	<2	610	5.3	<1	<0.5	130	12	75	4
MA-M08	8	bT	<0.2	12	4	490	4.4	<1	<0.5	120	13	82	4
MA-M09	0	bT	<0.2	8.2	<2	430	7.5	<1	<0.5	120	10	71	3
MA-M10	0	bT	<0.2	10	2	440	4.8	<1	<0.5	93	12	93	4
MA-M11a	0	dT	<0.2	13	<2	420	19	<1	<0.5	140	12	75	3
MA-M11b	0	bT	<0.2	13	<5	460	5	<1	<0.5	120	13	81	5
MA-M12	0	aT	<0.2	13	<2	470	4.2	<1	<0.5	150	13	69	3

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-M13	0	aT	<0.2	36	<2	550	10	<1	<0.5	130	18	130	7
MA-M14	0	aT	<0.2	4.5	4	510	1.7	<1	<0.5	120	8	57	3
MA-N01a	0	GF	<0.2	7.2	6	380	7.5	<1	<0.5	150	9	64	4
MA-N01b	0	aT	<0.2	4.6	<2	340	10	2	0.5	150	10	33	25
MA-N02	0	bT	<0.2	9.7	5	480	4.5	<1	<0.5	100	13	88	5
MA-N04	0	aT	<0.2	21	<2	410	2.2	<1	<0.5	130	9	58	8
MA-N05	0	bT	<0.2	6.8	4	370	31	1	<0.5	130	8	61	5
MA-N06	0	bT	<0.2	7.2	<2	450	1.4	<1	<0.5	120	7	70	4
MA-N07a	0	aT	<0.2	12	<2	480	3.4	<1	<0.5	110	10	73	4
MA-N07b	0	bT	<0.2	9.8	2	450	<0.5	<1	<0.5	120	10	71	4
MA-N08a	0	aT	<0.2	8.4	<2	420	<0.5	<1	<0.5	110	7	60	3
MA-N08b	0	bT	<0.2	7.9	5	460	3.3	<1	<0.5	110	11	74	4
MA-N09a	0	aT	<0.2	12	3	430	2.8	<1	<0.5	130	15	74	3
MA-N09b	0	bT	<0.2	11	4	450	2.2	<1	<0.5	97	13	84	4
MA-N10	0	bT	<0.2	6.9	<2	390	1.5	<1	<0.5	120	8	71	4
MA-N11a	0	aT	<0.2	9.6	5	440	8.5	<1	<0.5	140	11	77	3
MA-N11b	0	bT	<0.2	14	6	450	2	<1	<0.5	98	14	96	5
MA-N12	0	aT	0.4	20	2	380	68	<1	0.5	290	38	110	5
MA-N13	0	aT	<0.2	8.5	4	440	2.0	<1	<0.5	120	8	47	2
MA-N14	0	aT	<0.2	12	2	440	3.3	<1	<0.5	110	10	67	3
MA-NP14	0	bT	<0.2	10	<5	460	<1	<1	<0.5	110	12	81	5
MA-P01	0	bT	<0.2	10	4	470	<0.5	<1	<0.5	98	13	96	4
MA-P02	0	bT	<0.2	10	<2	340	2.5	<1	<0.5	150	12	81	5
MA-P02	8	bT	<0.2	11	<2	400	<0.5	<1	<0.5	160	11	85	6
MA-P03a	0	aT	<0.2	21	<2	400	6.0	<1	<0.5	130	16	65	5
MA-P03b	0	bT	<0.2	9.1	<2	490	4.0	<1	<0.5	110	13	84	5
MA-P04	0	bT	<0.2	28	5	470	<0.5	<1	<0.5	130	14	78	7
MA-P05	0	aT	<0.2	26	<2	270	23	2	0.5	180	20	110	5
MA-P06	0	aT	<0.2	10	3	620	16	<1	<0.5	180	12	74	7
MA-P07	0	bT	<0.2	4.2	<2	270	3.3	<1	<0.5	64	8	82	3
MA-P08a	0	aT	<0.2	17	<2	460	16	<1	<0.5	120	13	110	5
MA-P08b	0	bT	<0.2	15	<2	420	1.6	<1	<0.5	110	12	94	4
MA-P09	0	bT	<0.2	14	<2	680	<0.5	<1	<0.5	140	17	110	4
MA-P10a	0	aT	<0.2	11	<2	340	11	<1	<0.5	110	10	77	4
MA-P10b	0	bT	<0.2	9	<5	350	<1	<1	<0.5	100	10	67	2
MA-P11	0	bT	<0.2	9.7	<2	460	<0.5	<1	<0.5	100	11	92	4
MA-P12	0	bT	<0.2	9.0	<2	480	2.6	<1	<0.5	94	11	79	3
MA-P13a	0	aT	<0.2	10	5	400	4.5	<1	<0.5	100	9	53	3
MA-P13b	0	bT	<0.2	14	5	360	6	<1	<0.5	120	10	68	3
MA-P13b	8	bT	<0.2	12	<5	270	6	<1	<0.5	120	10	63	3
MA-P14	0	bT	<0.2	7.2	<2	370	2.4	<1	<0.5	100	7	62	3
MA-Q01	0	bT	<0.2	9.3	<2	540	5.6	<1	<0.5	81	13	100	4
MA-Q02a	0	aT	<0.2	18	4	380	19	<1	0.5	95	12	86	4
MA-Q02b	0	bT	<0.2	8.3	<2	340	<0.5	2	<0.5	82	12	79	4
MA-Q03	0	bT	<0.2	7.2	<2	280	2.1	<1	<0.5	71	9	63	3
MA-Q04a	0	aT	<0.2	12	<2	360	<0.5	<1	<0.5	110	11	80	5

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-Q04b	0	bT	<0.2	13	6	400	<1	<1	<0.5	90	13	85	5
MA-Q05a	0	aT	<0.2	15	<2	340	49	<1	0.5	100	13	88	4
MA-Q05b-1	0	aT	<0.2	11	<5	260	3	<1	<0.5	110	9	58	4
MA-Q05b-2	0	bT	<0.2	18	8	330	1	<1	<0.5	100	10	75	3
MA-Q06	0	bT	<0.2	8.4	4	440	4.1	<1	<0.5	76	14	210	13
MA-Q07	0	dT	<0.2	23	<2	250	3.2	<1	<0.5	120	16	100	5
MA-Q08	0	bT	<0.2	12	3	480	5.1	2	<0.5	110	12	82	4
MA-Q09	0	bT	<0.2	10	<2	530	9.1	<1	<0.5	94	11	91	4
MA-Q10	0	bT	<0.2	5.7	<2	330	11	<1	<0.5	83	7	82	4
MA-Q11	0	bT	<0.2	10	3	420	2.7	<1	<0.5	110	12	93	4
MA-Q12	0	bT	<0.2	8.2	3	480	4.6	<1	<0.5	110	10	74	4
MA-Q13	0	bT	<0.2	8.9	5	480	1.5	<1	<0.5	110	9	77	15
MA-Q14	0	bT	<0.2	8.2	<2	430	7.5	<1	<0.5	120	9	71	4
MA-R01	0	aT	<0.2	11	<2	350	5.4	<1	<0.5	120	14	96	4
MA-R02a	0	bT	<0.2	8.9	<2	390	<0.5	<1	<0.5	85	12	110	5
MA-R02b	0	bT	<0.2	9.5	<2	420	8.4	<1	<0.5	94	12	95	4
MA-R03	0	bT	<0.2	6.3	3	420	3.9	<1	<0.5	75	9	91	3
MA-R04	0	bT	<0.2	4.0	<2	630	<0.5	<1	<0.5	86	12	100	4
MA-R05	0	aT	<0.2	14	<2	480	4.2	1	<0.5	84	12	96	4
MA-R06	0	aT	<0.2	17	<2	300	2.5	<1	<0.5	94	12	87	5
MA-R06	8	aT	<0.2	19	3	360	2.5	<1	<0.5	99	12	88	4
MA-R07a	0	bT	<0.2	19	3	710	34	<1	<0.5	140	22	210	51
MA-R07b-1	0	bT	<0.2	9.6	9	280	7.4	<1	<0.5	78	9	69	5
MA-R07b-2	0	bT	<0.2	21	5	430	5.2	<1	<0.5	110	15	110	7
MA-R08	0	bT	<0.2	8.4	<2	320	5.2	<1	<0.5	110	12	91	5
MA-R09	0	aT	<0.2	15	<2	400	7.2	<1	<0.5	130	10	96	8
MA-R10	0	bT	<0.2	7.9	4	430	9.5	2	<0.5	97	11	88	8
MA-R11	0	bT	<0.2	12	<2	430	<0.5	1	<0.5	110	13	89	5
MA-R12a	0	bT	<0.2	7.3	<2	380	9.4	<1	<0.5	98	8	71	4
MA-R12b	0	bT	<0.2	9.9	<2	420	<0.5	1	<0.5	98	9	75	8
MA-R13	0	bT	<0.2	11	<2	530	3.8	1	<0.5	100	15	110	4
MA-R14	0	bT	<0.2	7.9	2	480	9.4	<1	<0.5	92	14	98	4
MA-S01	0	bT	<0.2	4.8	5	360	1.8	<1	<0.5	88	8	79	3
MA-S02a	0	GF	<0.2	110	7	770	81	3	<0.5	420	22	140	7
MA-S02b	0	bT	<0.2	6.6	<2	470	1.1	1	<0.5	97	10	82	4
MA-S03a	0	aT	<0.2	13	4	380	7.6	<1	<0.5	120	16	93	4
MA-S03b	0	aT	<0.2	11	22	340	7.9	<1	<0.5	84	11	120	4
MA-S04a	0	bT	<0.2	6.4	4	390	1.4	<1	<0.5	84	11	95	3
MA-S04b-1	0	bT	<0.2	6.4	5	320	<0.5	<1	<0.5	86	9	77	4
MA-S04b-2	0	bT	<0.2	11	<2	460	1.7	1	<0.5	88	13	96	5
MA-S05a	0	GF	<0.2	28	3	480	8.9	<1	<0.5	180	19	120	8
MA-S05b	0	bT	<0.2	9.6	<2	410	2.1	1	<0.5	83	13	95	4
MA-S06a	0	aT	<0.2	5.7	<2	410	8.6	<1	<0.5	86	19	170	6
MA-S06b-1	0	aT	<0.2	14	3	420	3.0	<1	<0.5	120	12	100	6
MA-S06b-2	0	bT	<0.2	13	<2	500	<0.5	<1	<0.5	95	12	88	5
MA-S07a	0	bT	<0.2	7.3	<2	400	1.2	<1	<0.5	83	7	72	4

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-S07b	0	bT	<0.2	9	<5	380	<1	<1	<0.5	110	8	72	4
MA-S08	1	bT	<0.2	11	<2	560	2.7	<1	<0.5	110	14	100	5
MA-S08	2	bT	<0.2	11	<2	550	<0.5	<1	<0.5	100	13	99	6
MA-S09	0	bT	<0.2	3.9	<2	460	2.2	3	<0.5	110	12	92	9
MA-S10	0	bT	<0.2	4.7	<2	400	<0.5	<1	<0.5	100	8	76	4
MA-S11	0	aT	<0.2	18	<2	490	6.5	2	<0.5	150	10	87	6
MA-S12a	0	rk	<0.2	8.3	<2	750	<0.5	<1	<0.5	84	11	37	41
MA-S12b	1	bT	<0.2	7.6	17	340	7.9	<1	<0.5	110	10	95	6
MA-S12b	2	bT	<0.2	8	<5	270	9	<1	<0.5	110	6	68	6
MA-S13	0	bT	<0.2	11	<2	510	3.6	<1	<0.5	120	10	75	5
MA-S14	0	bT	0.4	8.1	<2	560	20	<1	<0.5	130	10	61	4
MA-T01	0	bT	<0.2	7.0	<2	490	6.1	<1	<0.5	96	13	93	4
MA-T02	0	bT	<0.2	9.7	<2	570	<0.5	<1	<0.5	93	13	110	6
MA-T03	0	bT	<0.2	7.7	6	390	3.1	<1	<0.5	92	14	110	4
MA-T04	0	bT	<0.2	17	<2	510	20	<1	<0.5	88	11	110	8
MA-T05-1	0	aT	<0.2	15	<2	440	40	<1	<0.5	110	13	84	4
MA-T05-2	0	bT	<0.2	11	<2	460	1.3	<1	<0.5	100	13	89	7
MA-T06	0	bT	<0.2	5.9	<2	480	1.2	<1	<0.5	91	10	120	6
MA-T06	8	bT	<0.2	6.2	<2	510	<0.5	<1	<0.5	90	10	120	6
MA-T07	0	bT	<0.2	6.1	<2	350	<0.5	<1	<0.5	96	9	81	3
MA-T08	0	bT	<0.2	7.1	3	240	6.0	<1	<0.5	100	7	74	4
MA-T09	0	bT	<0.2	9.5	2	320	<0.5	<1	<0.5	120	8	71	4
MA-T10a	0	aT	<0.2	8.5	<2	310	13	<1	<0.5	120	8	79	8
MA-T10b	0	bT	<0.2	9.6	4	380	1.9	<1	<0.5	110	8	78	5
MA-T11	0	bT	<0.2	5.8	2	370	<0.5	<1	<0.5	100	12	110	8
MA-T12a	0	aT	<0.2	9.5	<2	470	5.3	<1	<0.5	120	12	89	6
MA-T12b	0	bT	<0.2	12	<2	430	2.5	<1	<0.5	120	11	75	7
MA-T13	0	bT	<0.2	6.7	<2	490	38	<1	<0.5	88	9	99	6
MA-T14	0	bT	<0.2	17	11	620	3.0	<1	<0.5	100	16	110	37
MA-V01	0	bT	0.4	3.7	<2	320	<0.5	<1	<0.5	79	9	88	3
MA-V02a	0	aT	<0.2	9.4	<2	440	5.2	<1	<0.5	89	9	93	5
MA-V02b	0	bT	<0.2	9.6	<2	590	2.8	<1	<0.5	95	12	98	5
MA-V03	0	bT	<0.2	11	<2	480	2.9	<1	<0.5	96	13	110	6
MA-V04	0	bT	<0.2	9.1	3	430	11	<1	<0.5	89	11	110	4
MA-V05	0	bT	<0.2	10	2	390	3.3	<1	<0.5	91	12	98	5
MA-V06	0	bT	<0.2	5.1	3	420	5.0	<1	<0.5	80	9	94	5
MA-V07	0	bT	<0.2	4.6	<2	480	<0.5	<1	<0.5	91	13	110	4
MA-V08	0	bT	<0.2	6.1	<2	400	9.5	<1	<0.5	81	10	93	4
MA-V09a	0	aT	<0.2	9.1	<2	310	32	1	<0.5	110	8	78	3
MA-V09b	0	bT	<0.2	8.1	<2	380	3.9	<1	<0.5	110	10	75	4
MA-V10	0	bT	<0.2	8.9	<2	300	19	<1	<0.5	80	7	65	5
MA-V11	0	bT	<0.2	6.1	<2	360	6.5	<1	<0.5	83	9	76	4
MA-V12	0	bT	<0.2	6.5	<2	440	1.7	<1	<0.5	81	10	96	4
MA-V13a	0	aT	<0.2	10	<2	360	6.6	<1	<0.5	110	8	90	4
MA-V13b	0	bT	<0.2	8.1	<2	460	<0.5	<1	<0.5	98	8	70	4
MA-V14	0	bT	<0.2	9.8	3	460	13	<1	<0.5	100	10	81	5

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Ag @ ppm	As # ppm	Au # ppb	Ba # ppm	Br # ppm	Ca # %	Cd @ ppm	Ce # ppm	Co # ppm	Cr # ppm	Cs # ppm
MA-W01	0	bT	<0.2	11	<2	500	2.0	<1	<0.5	100	13	100	5
MA-W02	0	bT	0.4	9.7	4	350	7.6	<1	<0.5	87	11	90	4
MA-W03	0	bT	<0.2	8.7	3	470	3.2	<1	<0.5	93	13	100	5
MA-W04	0	bT	<0.2	9.9	<2	370	12	<1	<0.5	110	12	96	4
MA-W04	8	bT	<0.2	9.9	<2	470	12	<1	<0.5	120	12	95	4
MA-W05	0	bT	<0.2	8.7	<2	420	11	<1	<0.5	75	13	100	5
MA-W06	0	bT	<0.2	8.9	4	500	6.6	<1	<0.5	97	11	95	4
MA-W07	0	bT	<0.2	11	<2	430	7.2	<1	<0.5	94	15	110	5
MA-W08a	0	aT	<0.2	15	<2	270	32	<1	<0.5	82	11	98	4
MA-W08b-1	0	aT	<0.2	10	6	360	3	1	<0.5	110	13	78	3
MA-W08b-2	0	bT	<0.2	12	<5	370	<1	<1	<0.5	99	12	89	4
MA-W08b-3	0	dT	<0.2	12	<5	340	<1	<1	<0.5	100	11	75	5
MA-W09	0	bT	<0.2	6.6	<2	340	8.4	<1	<0.5	95	9	92	4
MA-W10	0	bT	<0.2	5.1	<2	360	4.0	<1	<0.5	90	7	78	3
MA-W12	0	bT	<0.2	4.3	<2	370	5.5	<1	<0.5	110	10	81	4
MA-W13a	0	aT	<0.2	18	3	350	9.6	<1	<0.5	160	15	72	4
MA-W13b	0	bT	<0.2	14	<5	360	<1	<1	<0.5	120	12	68	5
MA-W14	0	bT	<0.2	10	<2	520	4.2	<1	<0.5	110	12	100	8
MA-X12	0	bT	<0.2	4.8	<2	420	0.9	<1	<0.5	89	8	71	3
MA-X13	0	bT	<0.2	11	<2	390	3.1	<1	<0.5	120	12	76	4
MA-X14	0	bT	<0.2	9.9	<2	540	1.7	<1	<0.5	110	12	92	4

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-A01	0	bT	28	2.0	3.52	17	35	60	0.70	282	<1	1.63
MA-A02	0	bT	25	1.5	3.18	13	60	41	0.54	162	<1	1.37
MA-A02	8	bT	23	1.5	3.43	14	50	43	0.57	160	<1	1.45
MA-A03a	0	bT	22	1.9	3.24	21	155	66	0.89	392	<1	1.57
MA-A03b	0	bT	27	2.0	3.53	12	10	57	0.77	936	<1	1.52
MA-A04	0	bT	24	1.5	3.30	13	40	51	0.74	506	<1	1.71
MA-A05a	0	bT	17	1.9	2.97	18	40	63	0.87	356	<1	2.01
MA-A05b	0	bT	19	1.8	2.42	14	35	50	0.79	654	<5	1.81
MA-A06a	0	aT	14	1.6	2.66	16	65	49	0.71	272	<1	1.67
MA-A06b	0	bT	22	2.1	3.81	16	20	68	0.80	772	<1	1.64
MA-A07	0	aT	16	2.1	2.58	21	50	61	0.90	410	<1	1.87
MA-A08	0	bT	17	2.3	3.50	13	25	63	0.69	458	<1	1.83
MA-A09	0	bT	21	2.1	3.82	14	30	58	0.74	940	<1	1.79
MA-B01	0	bT	25	2.0	4.74	16	20	65	0.78	712	<1	1.44
MA-B02a	0	aT	9	1.4	2.90	17	40	47	0.67	156	<1	1.53
MA-B02b	0	bT	30	1.8	4.95	13	15	64	0.74	796	<1	1.37
MA-B03	0	bT	24	2.4	4.93	22	10	86	1.03	806	<1	1.68
MA-B04	0	bT	14	1.5	3.55	14	145	43	0.54	170	<1	1.34
MA-B05	0	bT	16	1.7	3.31	17	80	50	0.79	276	<1	1.59
MA-B06	0	bT	8	1.7	2.70	18	5	70	0.96	250	<1	2.12
MA-B07	0	bT	24	1.9	3.89	12	15	55	0.69	802	<1	1.63
MA-B08	0	aT	17	1.8	3.14	18	95	58	0.83	430	<1	1.94
MA-B09	0	aT	17	1.9	2.82	26	25	76	1.20	966	<1	2.04
MA-C01	0	bT	20	1.8	4.01	14	20	59	0.64	536	<1	1.46
MA-C01	8	bT	22	2.0	4.84	17	20	72	0.82	570	<1	1.75
MA-C02	0	bT	29	1.9	4.18	15	30	69	0.83	904	<1	1.42
MA-C03	0	bT	17	1.9	2.65	29	40	78	1.17	472	<1	1.84
MA-C04	0	bT	22	1.7	4.17	14	30	61	0.70	1012	<1	1.42
MA-C05	0	bT	19	1.9	4.48	14	10	65	0.78	668	<1	1.51
MA-C06a	0	aT	11	1.5	2.37	15	15	51	0.69	224	<1	1.79
MA-C06b	0	bT	14	2.0	2.76	16	5	66	0.94	604	<1	1.80
MA-C07	0	bT	14	1.6	3.32	15	30	48	0.76	300	<1	1.49
MA-C08	0	bT	24	1.9	3.88	12	15	60	0.69	878	<1	1.58
MA-C09	0	bT	7	1.5	2.48	12	95	44	0.60	190	<1	1.64
MA-C10a	0	aT	13	2.0	3.37	22	85	64	0.92	480	<1	1.94
MA-C10b	0	aT	13	1.8	2.69	16	25	58	0.83	544	<1	2.15
MA-C11	0	aT	29	1.9	4.52	14	220	48	0.74	380	<1	1.58
MA-C13a	0	aT	34	1.8	4.21	15	65	50	0.72	300	<1	1.56
MA-C13b	0	bT	17	1.8	3.27	15	25	60	0.77	632	<1	1.99
MA-D01	0	bT	25	1.6	4.60	12	30	50	0.63	610	<1	1.50
MA-D02	0	bT	27	1.7	4.63	12	25	47	0.64	690	<1	1.43
MA-D03	0	bT	33	2.2	5.42	14	30	70	0.76	804	<1	1.47
MA-D04a	0	aT	16	1.9	3.78	21	55	79	0.88	330	<1	2.13
MA-D04b	0	bT	27	2.0	4.57	17	15	78	0.89	702	<1	1.86
MA-D05	0	bT	20	1.9	3.70	21	80	80	0.88	316	<1	1.96
MA-D06	0	bT	21	1.8	3.91	19	60	72	0.93	532	<1	1.88

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-D07	0	aT	8	1.9	3.16	18	40	71	0.98	190	<1	1.98
MA-D08	0	bT	23	2.1	3.83	16	15	74	1.01	736	<1	2.03
MA-D09	0	bT	24	2.0	4.50	14	20	60	0.77	1062	<1	1.62
MA-D10	0	bT	6	1.6	2.89	16	35	57	0.84	310	<1	1.97
MA-D11	0	bT	7	1.6	3.34	16	15	57	0.74	206	<1	1.84
MA-D12	0	bT	10	1.7	2.71	13	10	56	0.72	540	<1	2.01
MA-D13	0	aT	21	1.7	2.97	17	45	53	0.75	554	<1	2.08
MA-D14	0	bT	16	2.3	3.47	17	30	62	0.90	588	<1	2.10
MA-E01	0	bT	18	1.7	3.59	12	10	58	0.72	720	<1	1.56
MA-E02	0	bT	24	1.6	3.97	13	25	63	0.69	678	<1	1.47
MA-E03	0	bT	23	1.4	3.90	12	20	52	0.67	676	<1	1.48
MA-E04a	0	aT	19	1.6	3.29	13	25	54	0.65	520	<1	1.50
MA-E04b-1	0	bT	26	1.8	3.96	11	15	55	0.65	888	<1	1.44
MA-E04b-2	0	bT-P	27	2.0	4.36	14	n/a	76	0.8[illegible]	820	<1	1.58
MA-E05	0	bT	25	1.9	4.04	12	20	64	0.81	716	<1	1.41
MA-E06	0	bT	22	1.6	3.32	14	25	60	0.69	690	<1	1.42
MA-E06	8	bT	22	1.8	3.70	15	25	65	0.71	710	<1	1.56
MA-E07	0	bT	15	1.3	2.64	15	40	58	0.64	286	<1	1.64
MA-E08	0	aT	13	1.8	3.38	15	150	61	0.95	1260	<1	1.33
MA-E09	0	bT	14	1.6	3.46	14	60	57	0.86	494	<1	1.55
MA-E10	0	bT	27	1.4	4.30	9	60	45	0.54	932	<1	1.15
MA-E11	0	bT	13	1.6	2.52	12	25	52	0.69	440	<1	1.90
MA-E12	0	bT	13	1.6	2.44	15	30	50	0.63	418	<1	1.91
MA-E13	0	aT	30	1.6	3.19	15	90	49	0.70	264	<1	1.69
MA-E14	0	bT	15	1.5	2.55	12	25	44	0.52	462	<1	1.67
MA-F01	0	bT	23	1.5	3.60	13	55	50	0.51	516	<1	1.53
MA-F02	0	aT	13	1.2	3.26	11	100	44	0.52	312	<1	1.52
MA-F03a	0	aT	10	1.2	3.15	16	135	49	0.65	186	<1	1.36
MA-F03b	0	bT	15	1.6	3.40	12	10	55	0.70	698	<1	1.66
MA-F04	1	bT	27	2.5	4.22	12	10	75	0.83	938	<1	1.48
MA-F04	2	bT	27	2.5	4.22	11	10	76	0.92	912	<1	1.50
MA-F05	0	bT	22	1.6	3.94	13	25	54	0.64	626	<1	1.69
MA-F06	0	bT	19	2.3	3.39	16	15	73	0.94	774	<1	1.83
MA-F07	0	bT	18	1.6	3.93	14	50	64	0.75	506	<1	1.60
MA-F08	0	aT	11	1.7	2.58	18	80	86	1.04	318	<1	2.17
MA-F09a	0	bT	9	2.0	2.78	18	10	84	0.91	238	<1	2.05
MA-F09b	0	bT	11	2.0	3.62	20	5	110	1.51	672	<1	2.18
MA-F10	0	bT	18	1.6	3.23	14	5	63	0.74	680	<1	1.74
MA-F11a	0	aT	20	1.5	3.16	21	50	64	0.88	318	<1	1.66
MA-F11b	0	bT	20	1.9	3.71	14	10	66	0.91	710	<1	1.92
MA-F11c-1	0	bT	29	1.7	3.65	13	35	53	0.75	708	<5	1.35
MA-F11c-2	0	bT	19	1.9	2.37	20	30	64	1.12	684	<5	1.77
MA-F12	0	bT	11	1.7	2.88	14	10	55	0.65	176	<1	1.70
MA-F13	1	bT	9	1.5	2.08	16	15	47	0.61	224	<1	1.85
MA-F13	2	bT	14	1.5	2.15	15	15	46	0.59	484	<1	1.89
MA-F14	0	bT	5	1.4	1.79	16	40	45	0.62	88	<1	1.26

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-FG01	0	bT	15	1.7	2.73	12	15	46	0.76	524	<5	1.50
MA-G01	0	aT	19	1.6	2.76	15	15	54	0.75	814	<1	1.71
MA-G01	8	aT	18	1.5	2.65	15	25	52	0.70	780	<1	1.67
MA-G02	0	bT	16	1.3	3.23	11	80	52	0.54	458	<1	1.64
MA-G03	0	aT	19	1.7	3.06	14	5	58	0.73	792	<1	1.83
MA-G04	0	aT	29	1.7	2.58	19	20	66	0.90	718	<1	1.81
MA-G05	0	bT	22	1.4	3.45	10	20	48	0.59	732	<1	1.40
MA-G06	0	bT	17	1.5	3.34	12	10	52	0.54	554	<1	1.62
MA-G07	0	bT	24	2.0	3.33	16	5	63	0.88	846	<1	1.79
MA-G08	0	bT	17	1.7	3.40	13	40	66	0.78	442	<1	1.78
MA-G09	0	bT	3	2.3	2.37	19	15	87	1.15	106	<1	1.72
MA-G10a	0	aT	13	1.5	2.40	19	5	81	1.06	388	<1	2.03
MA-G10b-1	0	aT	14	1.5	2.50	16	75	61	1.03	388	<5	1.75
MA-G10b-2	0	bT	20	1.6	2.63	15	25	63	0.97	650	<5	1.67
MA-G11a	0	bT	18	1.6	3.05	14	40	58	0.69	456	<1	1.69
MA-G11b	0	bT	18	1.5	2.40	15	15	54	0.91	642	<5	1.60
MA-G12	0	bT	19	1.5	2.57	13	20	52	0.69	668	<1	1.67
MA-G13	0	bT	21	1.5	2.19	15	40	49	0.73	292	<1	1.78
MA-G14a	0	bT	24	1.9	2.37	15	50	50	0.78	592	<1	1.80
MA-G14b	0	bT	30	1.9	3.49	12	40	50	0.72	728	<1	1.47
MA-H01	0	bT	23	1.7	3.65	11	15	62	0.92	852	<1	1.57
MA-H02-1	0	bT	16	1.6	2.89	14	15	59	0.81	708	<1	1.92
MA-H02-2	0	bT	20	1.8	3.41	11	15	59	0.88	810	<1	1.68
MA-H03	0	aT	12	1.3	3.89	10	85	41	0.56	338	<1	1.14
MA-H04a	0	aT	15	1.8	3.10	14	15	65	0.86	786	<1	1.86
MA-H04b	0	bT	22	2.0	3.67	11	20	66	0.87	862	<1	1.53
MA-H05	0	bT	17	1.5	3.07	10	20	49	0.63	574	<1	1.45
MA-H06	0	bT	24	1.6	3.70	10	25	45	0.47	550	<1	1.30
MA-H07	0	bT	18	1.5	3.57	11	25	53	0.63	656	<1	1.52
MA-H08a	0	aT	12	1.4	2.87	18	70	57	0.78	400	<1	1.57
MA-H08b	0	bT	21	1.4	3.14	13	25	58	0.74	726	<1	1.53
MA-H09	0	bT	16	1.9	3.43	15	10	83	1.10	684	<1	1.88
MA-H10	0	bT	23	1.6	4.00	11	65	56	0.67	556	<1	1.36
MA-H11	0	aT	15	1.4	2.16	19	45	57	0.81	300	<1	1.83
MA-H12	0	bT	17	1.5	2.42	14	20	53	0.72	446	<1	1.73
MA-H13	0	bT	27	1.9	4.01	13	25	55	0.80	654	<1	1.55
MA-H14	0	bT	13	1.8	2.48	13	25	52	0.72	378	<1	1.67
MA-K01	0	bT	28	1.6	4.41	11	20	59	0.74	860	<1	1.28
MA-K02	0	bT	18	1.4	3.15	12	50	55	0.71	482	<1	1.66
MA-K03a-1	0	aT	15	1.2	2.30	12	35	49	0.71	400	<1	1.90
MA-K03a-2	0	aT	17	1.3	2.47	12	20	49	0.71	542	<1	1.82
MA-K03b	0	bT	27	1.8	3.52	11	25	54	0.86	1006	<5	1.46
MA-K04	0	aT	13	1.8	2.95	17	5	76	1.03	746	<1	2.11
MA-K05a	0	aT	13	1.3	2.69	14	65	49	0.65	266	<1	1.74
MA-K05b	0	bT	25	1.8	4.03	9	20	52	0.67	760	<1	1.46
MA-K06	0	bT	14	1.4	2.80	14	60	38	0.60	218	<1	1.33

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-K06	8	bT	14	1.2	2.74	14	65	39	0.54	232	<1	1.35
MA-K07	0	bT	16	1.3	3.04	10	60	43	0.60	366	4	1.43
MA-K08	0	bT	25	1.2	3.54	10	30	35	0.55	778	<1	1.14
MA-K09	0	bT	11	1.4	3.02	11	30	36	0.46	296	<1	1.23
MA-K10	0	bT	16	1.4	2.65	13	20	50	0.65	250	<1	1.48
MA-K11	0	bT	19	1.2	2.89	13	80	43	0.58	196	<1	1.41
MA-K12	0	bT	11	2.9	3.33	12	60	61	0.93	338	<1	1.22
MA-K13	0	aT	12	1.5	2.53	15	45	41	0.62	1168	<1	1.24
MA-K14	0	bT	23	1.8	2.72	13	10	42	0.68	444	<1	1.45
MA-L01a	0	bT	29	1.5	3.82	10	15	40	0.58	882	<1	1.15
MA-L01b-1	0	bT	18	1.5	3.74	11	145	45	0.71	592	<5	1.24
MA-L01b-2	0	bT	23	1.6	4.44	12	90	48	0.77	2724	<5	1.30
MA-L02	0	bT	25	1.3	3.65	10	20	39	0.55	674	<1	1.20
MA-L03a	0	bT	15	1.5	2.81	11	10	45	0.58	472	<1	1.46
MA-L03b	0	bT	22	1.5	3.52	10	15	43	0.64	796	<1	1.31
MA-L04a	0	aT	18	1.8	2.27	17	5	53	0.92	660	<1	1.71
MA-L04b-1	0	aT	15	1.5	2.55	15	5	49	0.81	700	<1	1.73
MA-L04b-2	0	bT	26	1.7	3.85	10	15	44	0.75	1102	<1	1.31
MA-L05	0	aT	16	1.7	3.09	10	10	52	0.82	848	<1	1.53
MA-L06	0	bT	19	1.6	3.05	11	20	44	0.67	758	<1	1.34
MA-L07	0	bT	27	2.1	3.87	9	20	48	0.70	1076	<1	1.29
MA-L08	0	bT	35	1.7	4.48	11	25	42	0.68	1068	<1	1.27
MA-L09	0	bT	27	1.7	3.91	10	15	40	0.57	954	2	1.17
MA-L10	0	bT	30	1.8	3.72	9	15	45	0.62	916	<1	1.03
MA-L11	0	bT	10	1.7	2.65	11	5	51	0.76	484	<1	1.46
MA-L12	0	aT	15	1.7	2.31	20	5	53	0.91	228	<1	1.79
MA-L13-1	0	aT	57	1.5	5.04	7	5	35	0.52	348	5	0.75
MA-L13-2	0	aT	41	1.8	3.99	15	5	50	0.71	282	3	0.91
MA-L14	0	bT	30	2.0	3.27	14	10	47	0.81	406	<1	1.52
MA-M01	1	bT	37	1.3	3.61	10	30	36	0.54	910	<1	1.02
MA-M01	2	bT	63	1.2	3.74	10	35	37	0.52	858	3	1.05
MA-M02a	0	aT	21	1.9	2.69	19	25	81	1.17	760	<1	2.40
MA-M02b	0	bT	28	2.1	4.46	16	10	65	0.92	964	<1	1.63
MA-M03a	0	bT	16	1.7	2.83	16	25	54	0.84	730	<1	2.07
MA-M03b	0	bT	23	1.5	3.14	12	20	53	0.85	854	<5	1.55
MA-M04	0	aT	10	1.5	3.00	15	60	53	0.73	266	<1	1.84
MA-M05	0	aT	10	1.6	2.63	15	30	64	0.88	316	<1	1.99
MA-M06	0	aT	12	1.4	2.85	17	65	75	2.10	368	<1	1.86
MA-M07	0	bT	12	1.5	2.76	14	15	54	0.80	344	<1	1.78
MA-M08	0	bT	27	2.0	3.46	13	35	53	0.72	694	<1	1.63
MA-M08	8	bT	25	1.9	3.45	13	20	52	0.72	654	<1	1.64
MA-M09	0	bT	18	1.7	2.76	12	30	45	0.67	452	<1	1.54
MA-M10	0	bT	25	1.5	3.92	11	25	38	0.57	738	2	1.24
MA-M11a	0	dT	21	1.8	3.08	17	60	51	0.74	548	<1	1.65
MA-M11b	0	bT	25	1.9	3.59	13	35	53	0.90	710	<5	1.43
MA-M12	0	aT	26	2.1	3.19	18	15	63	0.94	822	<1	1.80

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat- erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-M13	0	aT	37	2.3	4.65	14	50	54	0.92	578	<1	1.22
MA-M14	0	aT	11	2.0	2.27	14	5	51	0.78	180	<1	1.94
MA-N01a	0	GF	13	1.4	2.71	19	30	59	0.90	726	<1	1.85
MA-N01b	0	aT	10	1.7	3.35	19	20	62	1.09	884	<1	1.95
MA-N02	0	bT	19	1.3	3.77	11	55	38	0.54	408	<1	1.47
MA-N04	0	aT	15	1.2	2.84	13	40	50	0.75	362	<1	1.82
MA-N05	0	bT	14	1.6	2.96	15	65	56	0.82	374	<1	1.73
MA-N06	0	bT	14	1.8	2.84	15	15	55	0.83	442	<1	1.84
MA-N07a	0	aT	18	1.5	3.20	13	30	44	0.67	288	<1	1.73
MA-N07b	0	bT	22	2.0	3.46	14	20	56	0.79	804	<1	1.58
MA-N08a	0	aT	16	1.6	2.48	14	10	44	0.76	574	<1	1.73
MA-N08b	0	bT	19	1.7	3.24	11	10	44	0.65	652	<1	1.51
MA-N09a	0	aT	35	2.3	3.29	15	20	51	0.75	988	<1	1.63
MA-N09b	0	bT	24	1.5	3.80	10	20	42	0.55	814	1	1.29
MA-N10	0	bT	15	1.8	2.69	16	15	54	0.83	412	<1	1.66
MA-N11a	0	aT	26	1.6	2.96	15	35	47	0.68	232	<1	1.63
MA-N11b	0	bT	32	1.7	3.99	9.7	40	44	0.78	1194	<5	1.22
MA-N12	0	aT	29	3.1	3.74	8	255	60	0.81	5214	<1	0.88
MA-N13	0	aT	17	1.9	2.19	15	10	53	0.88	352	<1	1.72
MA-N14	0	aT	21	2.0	2.67	14	15	46	0.77	430	<1	1.60
MA-NP14	0	bT	24	1.9	3.44	10	10	53	0.88	854	<5	1.47
MA-P01	0	bT	26	1.6	3.99	10	20	42	0.62	806	<1	1.35
MA-P02	0	bT	19	2.0	3.25	17	20	74	0.95	738	<1	1.54
MA-P02	8	bT	20	2.2	3.34	18	15	76	0.98	758	<1	1.55
MA-P03a	0	aT	24	1.5	2.67	15	20	52	0.73	738	<1	1.74
MA-P03b	0	bT	19	1.3	3.51	11	25	46	0.57	756	3	1.50
MA-P04	0	bT	18	1.8	3.38	11	15	57	0.70	592	<1	1.65
MA-P05	0	aT	28	1.5	3.59	13	115	46	0.64	442	<1	1.41
MA-P06	0	aT	14	1.4	3.07	18	40	58	0.81	334	<1	1.91
MA-P07	0	bT	8	1.2	1.99	9	25	30	0.43	344	<1	1.05
MA-P08a	0	aT	29	1.6	3.84	14	85	47	0.54	310	<1	1.50
MA-P08b	0	bT	24	2.6	3.45	14	5	57	0.81	552	<1	1.63
MA-P09	0	bT	27	2.9	3.99	15	15	71	0.96	580	<1	1.84
MA-P10a	0	aT	19	1.5	2.69	17	45	43	0.72	262	<1	1.61
MA-P10b	0	bT	21	2.0	2.80	15	15	50	0.82	590	<5	1.59
MA-P11	0	bT	22	2.0	3.26	12	10	50	0.73	442	<1	1.56
MA-P12	0	bT	15	1.7	2.73	13	5	48	0.68	558	<1	1.61
MA-P13a	0	aT	19	1.7	2.13	15	10	51	0.73	514	<1	1.62
MA-P13b	0	bT	18	1.7	2.61	6	50	51	0.77	488	<5	1.64
MA-P13b	8	bT	18	1.7	2.39	13	30	51	0.78	502	<5	1.65
MA-P14	0	bT	9	1.6	2.15	14	10	49	0.74	310	<1	1.62
MA-Q01	0	bT	20	1.3	3.50	11	20	37	0.45	500	<1	1.33
MA-Q02a	0	aT	24	1.2	3.56	11	105	38	0.49	306	<1	1.38
MA-Q02b	0	bT	19	1.5	2.77	11	20	41	0.61	596	<1	1.40
MA-Q03	0	bT	22	1.1	2.34	8	15	31	0.39	788	<1	0.99
MA-Q04a	0	aT	23	1.9	2.83	19	15	56	0.85	770	<1	1.70

MAdam (NTS 21 G/11):
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SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-Q04b	0	bT	30	1.6	4.07	10	30	41	0.70	962	<5	1.24
MA-Q05a	0	aT	14	1.1	3.47	12	180	36	0.51	226	<1	1.31
MA-Q05b-1	0	aT	17	1.4	2.27	14	15	45	0.81	634	<5	1.75
MA-Q05b-2	0	bT	18	1.9	2.97	13	20	51	0.75	636	<5	1.47
MA-Q06	0	bT	3	1.7	4.87	12	15	37	0.77	198	<1	1.14
MA-Q07	0	dT	23	2.1	3.56	13	30	56	0.79	626	<1	1.63
MA-Q08	0	bT	19	1.7	3.01	13	10	52	0.68	612	<1	1.67
MA-Q09	0	bT	16	1.5	3.14	13	25	45	0.58	516	<1	1.53
MA-Q10	0	bT	8	1.3	2.47	12	40	41	0.54	190	<1	1.41
MA-Q11	0	bT	19	1.9	3.41	13	10	53	0.66	660	<1	1.63
MA-Q12	0	bT	17	1.7	2.62	16	5	51	0.76	506	<1	1.67
MA-Q13	0	bT	11	1.8	2.20	15	10	53	0.80	350	<1	1.69
MA-Q14	0	bT	10	1.6	2.44	15	5	54	0.74	370	<1	1.73
MA-R01	0	aT	36	1.8	3.02	17	25	55	0.74	534	<1	1.55
MA-R02a	0	bT	32	1.8	3.69	14	15	45	0.65	426	<1	1.45
MA-R02b	0	bT	23	1.4	3.55	10	35	44	0.44	484	<1	1.44
MA-R03	0	bT	15	1.2	2.82	13	15	37	0.49	276	<1	1.34
MA-R04	0	bT	10	1.4	3.27	11	5	44	0.57	318	<1	1.44
MA-R05	0	aT	17	1.7	3.24	14	25	46	0.69	322	<1	1.69
MA-R06	0	aT	22	1.8	2.95	19	40	49	0.68	678	<1	1.56
MA-R06	8	aT	21	1.8	2.99	19	50	50	0.73	666	<1	1.59
MA-R07a	0	bT	29	3.8	5.98	10	110	64	1.66	872	<1	1.24
MA-R07b-1	0	bT	16	1.2	2.34	11	40	36	0.55	694	<1	1.10
MA-R07b-2	0	bT	22	1.8	3.73	16	30	54	0.81	778	<1	1.51
MA-R08	0	bT	15	1.4	3.35	12	25	50	0.64	610	<1	1.57
MA-R09	0	aT	23	1.8	2.99	14	35	52	0.79	594	<1	1.71
MA-R10	0	bT	16	1.6	3.07	12	30	47	0.59	428	<1	1.55
MA-R11	0	bT	21	1.8	3.51	12	15	54	0.64	760	<1	1.64
MA-R12a	0	bT	12	1.4	2.38	13	20	46	0.50	306	<1	1.63
MA-R12b	0	bT	17	1.7	2.77	12	15	50	0.64	648	<1	1.65
MA-R13	0	bT	28	1.7	3.98	10	30	47	0.50	814	<1	1.36
MA-R14	0	bT	19	1.2	3.03	11	20	44	0.53	714	<1	1.45
MA-S01	0	bT	10	1.3	2.28	14	10	43	0.56	252	<1	1.65
MA-S02a	0	GF	39	5.5	5.66	12	325	87	1.45	3626	<1	1.47
MA-S02b	0	bT	20	2.0	2.72	14	20	51	0.73	404	<1	1.64
MA-S03a	0	aT	35	1.5	3.36	12	45	47	0.62	766	<1	1.57
MA-S03b	0	aT	17	1.2	3.42	20	65	40	0.66	616	<1	1.35
MA-S04a	0	bT	12	1.3	2.77	14	15	42	0.50	514	<1	1.53
MA-S04b-1	0	bT	14	1.4	2.80	10	15	42	0.51	532	<1	1.47
MA-S04b-2	0	bT	27	1.6	3.94	10	25	42	0.59	704	<1	1.33
MA-S05a	0	GF	31	2.3	4.50	13	60	54	0.69	1546	<1	1.42
MA-S05b	0	bT	29	1.6	3.58	10	30	42	0.50	788	<1	1.33
MA-S06a	0	aT	35	1.6	4.85	13	35	38	0.59	834	<1	1.69
MA-S06b-1	0	aT	12	1.5	2.88	13	15	46	0.55	714	<1	1.24
MA-S06b-2	0	bT	23	1.8	3.46	13	15	49	0.65	724	<1	1.46
MA-S07a	0	bT	14	1.5	2.33	11	15	44	0.62	318	<1	1.64

MAdam (NTS 21 G/11):
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SAMPLE	Rep. Stat.	Mat-erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-S07b	0	bT	15	1.9	2.29	20	15	51	0.97	442	<5	1.92
MA-S08	1	bT	20	2.0	3.78	11	25	53	0.70	620	<1	1.63
MA-S08	2	bT	21	1.9	3.78	11	20	53	0.64	678	<1	1.62
MA-S09	0	bT	17	2.0	3.06	13	10	49	0.64	312	<1	1.75
MA-S10	0	bT	11	1.5	1.88	18	10	49	0.72	212	<1	1.86
MA-S11	0	aT	20	1.8	2.72	18	15	55	0.78	742	<1	1.87
MA-S12a	0	rk	2	1.7	2.52	4	5	33	0.43	176	<1	0.16
MA-S12b	1	bT	7	1.3	2.71	19	50	51	0.73	696	<1	1.19
MA-S12b	2	bT	6	1.4	2.14	18	35	52	0.88	394	<5	1.15
MA-S13	0	bT	15	1.9	3.06	12	15	61	0.62	584	<1	1.59
MA-S14	0	bT	12	1.8	2.37	22	35	60	0.85	326	<1	2.06
MA-T01	0	bT	18	1.5	3.24	14	30	46	0.58	548	3	1.63
MA-T02	0	bT	22	1.7	3.68	12	25	46	0.63	570	<1	1.51
MA-T03	0	bT	19	1.4	3.58	12	30	43	0.47	670	<1	1.50
MA-T04	0	bT	15	1.1	4.09	13	65	40	0.73	356	<1	1.26
MA-T05-1	0	aT	13	1.6	2.87	18	60	50	0.75	876	<1	1.66
MA-T05-2	0	bT	22	1.9	3.75	12	15	55	0.69	670	<1	1.61
MA-T06	0	bT	5	1.6	2.82	13	10	45	0.52	320	<1	1.17
MA-T06	8	bT	5	1.5	2.69	13	15	43	0.58	318	<1	1.13
MA-T07	0	bT	11	1.6	2.73	11	15	46	0.50	356	<1	1.70
MA-T08	0	bT	11	1.4	2.15	14	15	47	0.52	348	<1	1.63
MA-T09	0	bT	13	2.5	2.07	16	15	61	0.82	432	<1	1.68
MA-T10a	0	aT	12	1.5	2.39	15	45	45	0.55	194	<1	1.67
MA-T10b	0	bT	13	2.0	2.61	16	20	57	0.83	606	<1	1.71
MA-T11	0	bT	18	1.7	2.65	13	15	51	0.61	330	<1	0.88
MA-T12a	0	aT	17	1.7	3.28	12	25	57	0.65	682	<1	1.41
MA-T12b	0	bT	19	1.7	3.18	11	25	54	0.64	818	<1	1.41
MA-T13	0	bT	11	1.5	2.71	15	110	43	0.56	234	<1	1.26
MA-T14	0	bT	29	1.8	3.49	7	15	36	0.71	764	<1	0.27
MA-V01	0	bT	7	1.3	2.28	11	10	40	0.50	166	<1	1.65
MA-V02a	0	aT	19	1.3	2.83	11	25	44	0.53	412	<1	1.33
MA-V02b	0	bT	23	1.5	3.38	11	25	51	0.63	520	<1	1.42
MA-V03	0	bT	27	1.9	3.95	11	25	50	0.63	608	<1	1.36
MA-V04	0	bT	18	1.5	3.57	13	30	42	0.54	488	<1	1.41
MA-V05	0	bT	21	1.4	3.59	11	20	41	0.52	548	<1	1.38
MA-V06	0	bT	8	1.2	2.58	12	20	40	0.44	222	<1	1.36
MA-V07	0	bT	11	1.6	3.61	11	15	45	0.58	296	<1	1.53
MA-V08	0	bT	16	1.3	2.98	10	45	39	0.49	332	<1	1.31
MA-V09a	0	aT	12	1.4	2.40	15	65	42	0.62	322	<1	1.48
MA-V09b	0	bT	17	1.7	2.71	11	15	46	0.59	652	<1	1.51
MA-V10	0	bT	9	1.0	2.10	14	60	38	0.47	196	<1	1.32
MA-V11	0	bT	8	1.2	2.36	12	25	37	0.60	320	<1	1.44
MA-V12	0	bT	5	1.2	2.79	15	10	40	0.61	276	<1	1.57
MA-V13a	0	aT	11	1.3	2.69	15	75	51	0.59	220	<1	1.48
MA-V13b	0	bT	14	1.7	2.65	10	10	51	0.61	492	<1	1.59
MA-V14	0	bT	15	1.5	2.83	13	35	47	0.62	474	<1	1.33

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat- erial	Cu @ ppm	Eu # ppm	Fe # %	Hf # ppm	Hg * ppb	La # ppm	Lu # ppm	Mn @ ppm	Mo # ppm	Na # %
MA-W01	0	bT	19	1.5	3.68	11	20	49	0.57	696	<1	1.49
MA-W02	0	bT	16	1.2	3.04	13	25	40	0.59	520	<1	1.41
MA-W03	0	bT	18	1.3	3.59	11	30	43	0.58	548	<1	1.32
MA-W04	0	bT	15	1.6	3.23	13	40	47	0.64	506	<1	1.53
MA-W04	8	bT	17	1.5	3.18	12	40	45	0.60	552	<1	1.49
MA-W05	0	bT	20	1.2	3.31	10	45	36	0.48	434	<1	1.27
MA-W06	0	bT	17	1.3	3.35	11	35	39	0.55	762	<1	1.37
MA-W07	0	bT	28	1.5	4.06	12	45	47	0.57	798	<1	1.39
MA-W08a	0	aT	16	1.2	3.32	18	105	36	0.58	280	<1	1.49
MA-W08b-1	0	aT	17	1.6	2.90	17	10	43	0.76	848	<5	1.60
MA-W08b-2	0	bT	24	1.9	3.39	13	15	48	0.80	694	<5	1.46
MA-W08b-3	0	dT	21	2.0	2.84	14	15	49	0.82	618	<5	1.58
MA-W09	0	bT	13	1.4	2.91	14	45	46	0.59	310	<1	1.58
MA-W10	0	bT	9	1.4	2.32	14	25	45	0.62	278	<1	1.70
MA-W12	0	bT	12	1.5	1.95	18	30	46	0.71	194	<1	1.62
MA-W13a	0	aT	17	2.2	2.49	18	40	54	0.78	712	<1	1.39
MA-W13b	0	bT	17	1.9	2.75	11	10	51	0.83	332	<5	1.48
MA-W14	0	bT	25	1.7	3.55	13	20	50	0.67	534	<1	1.16
MA-X12	0	bT	10	1.6	2.38	11	15	45	0.61	256	<1	1.56
MA-X13	0	bT	21	2.1	2.89	13	20	54	0.72	690	<1	1.34
MA-X14	0	bT	17	1.6	3.27	13	25	50	0.66	612	<1	1.60

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-A01	0	bT	52	27	20	83	1.0	14	8.8	<1	<0.5	1.5	19
MA-A02	0	bT	25	41	24	68	<0.1	11	5.9	1	<0.5	0.9	13
MA-A02	8	bT	37	39	20	51	<0.1	11	6.2	1	<0.5	<0.5	14
MA-A03a	0	bT	49	27	8	69	0.7	13	10	<1	<0.5	<0.5	27
MA-A03b	0	bT	47	32	10	91	0.9	14	9.4	1	<0.5	1.8	19
MA-A04	0	bT	48	28	6	120	0.9	13	7.7	2	<0.5	1.2	17
MA-A05a	0	bT	53	21	8	97	0.6	12	9.6	1	<0.5	1.2	22
MA-A05b	0	bT	44	25	6	81	0.6	11	7.5	<1	<1	2.0	15
MA-A06a	0	aT	37	22	6	54	0.7	9.8	7.9	1	<0.5	1.3	18
MA-A06b	0	bT	55	32	8	99	1.1	15	10	1	<0.5	1.7	23
MA-A07	0	aT	47	21	6	76	0.7	12	9.8	1	2.8	1.6	21
MA-A08	0	bT	59	26	4	65	1.2	15	10	1	<0.5	1.8	18
MA-A09	0	bT	53	32	8	<15	1.2	15	9.2	1	<0.5	<0.5	18
MA-B01	0	bT	52	35	8	120	0.9	18	10	1	<0.5	1.5	22
MA-B02a	0	aT	32	22	4	67	0.4	11	6.9	1	1.9	1.2	14
MA-B02b	0	bT	52	34	10	120	1.0	18	9.8	1	<0.5	1.3	21
MA-B03	0	bT	67	29	10	120	0.9	19	14	1	2.0	1.9	35
MA-B04	0	bT	31	19	4	65	0.7	12	6.0	1	<0.5	1.0	14
MA-B05	0	bT	36	25	10	90	0.6	11	8.4	1	<0.5	1.5	21
MA-B06	0	bT	60	14	10	120	0.8	14	11	1	1.4	1.5	24
MA-B07	0	bT	49	32	8	120	1.2	15	8.4	2	2.1	<0.5	17
MA-B08	0	aT	50	23	6	72	0.7	11	9.2	1	1.8	1.5	19
MA-B09	0	aT	62	23	10	57	0.9	11	12	1	<0.5	2.0	28
MA-C01	0	bT	49	31	6	95	0.7	15	8.9	1	<0.5	1.5	19
MA-C01	8	bT	61	36	8	110	0.9	19	11	1	<0.5	1.7	24
MA-C02	0	bT	57	33	14	120	1.0	15	10	2	<0.5	1.7	30
MA-C03	0	bT	65	19	10	80	0.5	11	13	2	1.9	2.1	37
MA-C04	0	bT	56	31	8	110	0.7	16	9.3	1	1.8	1.5	27
MA-C05	0	bT	53	23	8	140	0.7	17	10	1	1.6	<0.5	28
MA-C06a	0	aT	42	22	6	86	0.5	9.7	7.9	1	<0.5	1.2	19
MA-C06b	0	bT	57	20	8	65	0.8	12	11	2	<0.5	1.8	23
MA-C07	0	bT	41	23	40	80	0.6	12	7.7	1	<0.5	1.2	15
MA-C08	0	bT	51	37	10	120	1.0	16	8.7	1	1.9	1.5	20
MA-C09	0	bT	35	19	4	61	0.4	9.1	6.7	1	1.7	1.1	14
MA-C10a	0	aT	47	19	8	60	0.8	11	9.8	1	1.6	1.2	22
MA-C10b	0	aT	45	19	6	66	0.8	11	9.0	1	<0.5	1.5	18
MA-C11	0	aT	37	41	12	100	1.4	16	8.0	1	1.2	1.4	19
MA-C13a	0	aT	44	37	14	100	2.3	14	7.9	1	<0.5	1.6	18
MA-C13b	0	bT	48	29	8	110	0.9	12	8.6	2	2.8	1.4	19
MA-D01	0	bT	42	42	8	97	1.2	16	7.0	1	<0.5	1.2	16
MA-D02	0	bT	35	45	8	87	1.2	18	7.0	1	<0.5	1.3	15
MA-D03	0	bT	54	44	12	130	1.0	23	11	1	1.5	1.6	26
MA-D04a	0	aT	62	25	8	120	0.9	14	11	1	1.4	1.7	33
MA-D04b	0	bT	64	30	10	130	1.0	18	11	2	2.3	1.7	33
MA-D05	0	bT	54	23	10	90	0.8	14	11	1	2.6	1.3	33
MA-D06	0	bT	60	27	10	110	0.8	15	11	2	2.1	1.8	31

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-D07	0	aT	57	18	6	98	0.7	11	11	1	1.9	1.8	23
MA-D08	0	bT	61	27	8	120	1.1	16	12	1	2.6	2.0	27
MA-D09	0	bT	51	44	10	90	1.2	17	9.0	1	2.3	1.6	17
MA-D10	0	bT	47	24	4	110	0.6	12	8.5	1	1.2	1.4	20
MA-D11	0	bT	43	28	6	110	0.8	13	8.1	1	2.1	1.2	16
MA-D12	0	bT	42	23	6	63	0.7	11	8.3	1	2.4	1.2	17
MA-D13	0	aT	42	24	14	68	1.0	11	7.9	1	2.0	1.3	18
MA-D14	0	bT	54	31	8	69	0.9	15	10	1	<0.5	2.0	18
MA-E01	0	bT	47	30	10	110	0.8	15	8.8	2	2.0	1.3	20
MA-E02	0	bT	50	34	10	110	0.9	16	9.1	2	1.6	1.3	24
MA-E03	0	bT	37	34	10	110	0.9	15	7.6	3	1.8	1.1	21
MA-E04a	0	aT	46	33	8	62	0.7	14	7.9	1	<0.5	1.2	18
MA-E04b-1	0	bT	42	38	12	92	1.0	15	8.0	2	<0.5	1.3	18
MA-E04b-2	0	bT-P	55	34	12	120	1.1	17	11		1.3	1.8	26
MA-E05	0	bT	50	31	10	120	0.9	16	9.7	2	<0.5	1.5	24
MA-E06	0	bT	48	28	10	99	0.7	15	8.8	2	0.8	1.4	22
MA-E06	8	bT	43	29	12	100	0.8	16	9.9	2	1.7	1.3	26
MA-E07	0	bT	41	24	8	72	0.6	10	7.5	1	<0.5	1.1	23
MA-E08	0	aT	55	12	<2	50	0.4	11	12	<1	<0.5	2.2	39
MA-E09	0	bT	50	28	10	110	0.5	13	9.7	2	<0.5	1.7	24
MA-E10	0	bT	34	51	12	97	1.5	14	6.4	<1	1.4	1.0	15
MA-E11	0	bT	38	25	6	80	0.9	11	7.8	1	1.8	1.4	17
MA-E12	0	bT	46	25	8	79	0.9	11	7.6	1	<0.5	1.3	17
MA-E13	0	aT	41	28	26	85	0.9	12	7.4	1	1.4	1.3	19
MA-E14	0	bT	37	28	8	74	0.8	11	6.7	1	<0.5	1.0	14
MA-F01	0	bT	38	36	10	78	0.9	15	7.2	1	1.5	1.0	19
MA-F02	0	aT	31	24	12	84	0.8	11	5.8	2	<0.5	0.8	21
MA-F03a	0	aT	41	17	12	70	0.8	11	6.8	4	<0.5	1.1	24
MA-F03b	0	bT	44	28	10	100	0.8	14	8.2	2	2.1	1.3	22
MA-F04	1	bT	58	38	12	120	1.0	17	12	2	1.3	1.7	23
MA-F04	2	bT	55	34	12	120	1.1	16	12	2	<0.5	2.3	23
MA-F05	0	bT	43	32	8	100	1.0	17	7.9	2	2.2	1.0	24
MA-F06	0	bT	53	26	8	76	0.9	14	12	1	1.5	1.9	24
MA-F07	0	bT	44	46	10	110	2.9	16	9.1	1	2.1	1.4	23
MA-F08	0	aT	71	14	8	110	0.6	11	12	1	<0.5	1.8	34
MA-F09a	0	bT	65	16	8	74	0.7	12	12	2	<0.5	2.0	32
MA-F09b	0	bT	98	16	12	130	0.7	17	18	3	2.9	2.9	53
MA-F10	0	bT	51	27	8	110	0.7	13	9.3	2	2.2	1.7	24
MA-F11a	0	aT	47	39	10	81	0.9	11	9.4	1	1.0	1.4	26
MA-F11b	0	bT	55	28	8	100	1.0	15	10	1	1.7	1.8	24
MA-F11c-1	0	bT	44	46	6	110	0.8	14	7.5	<1	<1	<0.5	16
MA-F11c-2	0	bT	51	29	8	83	0.7	10	9.4	<1	2	1.1	22
MA-F12	0	bT	46	32	8	110	0.8	12	7.5	<1	1.7	1.2	16
MA-F13	1	bT	38	21	4	63	0.6	8.4	6.7	<1	<0.5	1.3	14
MA-F13	2	bT	37	22	6	67	0.7	8.3	7.1	<1	1.0	1.2	16
MA-F14	0	bT	37	11	6	74	0.7	9.1	6.0	1	1.4	1.0	12

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Material	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-FG01	0	bT	33	28	6	68	0.5	12	6.5	1	1	1.0	15
MA-G01	0	aT	47	28	10	84	0.7	11	8.5	1	2.2	1.4	22
MA-G01	8	aT	41	28	10	90	0.6	11	8.1	1	1.4	1.3	21
MA-G02	0	bT	42	28	10	110	0.8	12	7.4	1	1.7	1.0	26
MA-G03	0	aT	50	28	10	69	0.7	13	9.0	1	2.1	1.4	25
MA-G04	0	aT	51	25	12	85	0.6	12	10	1	1.7	1.6	31
MA-G05	0	bT	43	35	10	74	0.9	14	7.0	1	1.2	1.0	15
MA-G06	0	bT	45	36	6	100	0.8	15	7.4	1	<0.5	1.2	19
MA-G07	0	bT	58	30	10	89	0.9	14	10	1	1.7	1.6	25
MA-G08	0	bT	53	31	10	120	0.8	13	9.4	1	<0.5	1.7	26
MA-G09	0	bT	67	10	10	82	0.7	11	11	2	2.1	2.0	24
MA-G10a	0	aT	67	22	8	96	0.6	10	12	1	1.8	2.0	35
MA-G10b-1	0	aT	50	28	8	41	0.4	10	9.0	1	2	1.9	22
MA-G10b-2	0	bT	47	31	8	78	0.6	12	9.1	2	<1	1.5	21
MA-G11a	0	bT	49	32	8	90	0.9	12	8.9	<1	1.0	1.6	23
MA-G11b	0	bT	41	28	8	85	0.7	11	7.7	2	<1	1.4	20
MA-G12	0	bT	44	30	8	69	0.8	11	7.9	1	1.5	1.1	19
MA-G13	0	bT	39	24	10	71	1.0	8.7	7.6	1	1.6	1.3	17
MA-G14a	0	bT	41	28	10	63	1.9	11	8.6	<1	1.1	1.4	15
MA-G14b	0	bT	43	38	12	78	2.0	12	8.0	<1	<0.5	1.2	14
MA-H01	0	bT	53	27	12	150	0.8	16	10	3	2.5	1.8	28
MA-H02-1	0	bT	47	22	8	140	0.7	12	9.1	2	2.1	1.5	29
MA-H02-2	0	bT	51	26	12	140	0.6	14	9.8	2	2.4	1.7	27
MA-H03	0	aT	33	32	16	83	0.7	13	6.5	3	1.4	1.0	21
MA-H04a	0	aT	54	24	10	130	0.7	14	11	2	2.4	1.9	27
MA-H04b	0	bT	51	32	10	130	1.0	15	10	2	2.1	2.0	24
MA-H05	0	bT	40	29	8	82	0.7	14	7.5	2	1.3	1.2	18
MA-H06	0	bT	37	38	8	91	1.0	16	6.6	<1	<0.5	1.1	13
MA-H07	0	bT	40	30	8	94	1.0	14	7.6	1	1.4	1.0	19
MA-H08a	0	aT	46	21	6	76	0.7	11	8.2	2	<0.5	1.2	24
MA-H08b	0	bT	46	30	10	82	0.9	13	8.6	1	1.5	1.4	23
MA-H09	0	bT	70	25	10	120	0.8	15	13	1	1.9	2.2	34
MA-H10	0	bT	42	38	10	110	0.8	16	8.3	1	1.1	1.3	20
MA-H11	0	aT	48	24	8	70	0.9	8.2	8.6	1	1.8	1.5	22
MA-H12	0	bT	42	29	8	73	0.7	10	8.1	1	1.8	1.2	20
MA-H13	0	bT	46	41	12	85	2.1	15	8.5	1	<0.5	1.5	18
MA-H14	0	bT	45	26	8	71	1.1	11	8.0	1	1.3	1.2	16
MA-K01	0	bT	48	38	14	140	1.0	19	8.4	4	1.9	1.3	27
MA-K02	0	bT	42	26	12	120	0.7	13	7.8	3	2.1	1.2	26
MA-K03a-1	0	aT	39	19	10	120	0.5	9.4	7.3	3	2.0	1.2	24
MA-K03a-2	0	aT	43	20	10	100	0.7	10	7.6	3	2.2	1.3	22
MA-K03b	0	bT	46	39	12	88	0.7	15	7.8	3	<1	1.4	17
MA-K04	0	aT	60	18	18	130	0.6	13	12	4	2.9	2.1	39
MA-K05a	0	aT	35	22	10	84	0.6	11	6.7	2	2.0	1.0	20
MA-K05b	0	bT	40	39	12	100	0.9	16	8.1	2	1.2	1.4	18
MA-K06	0	bT	38	25	10	80	0.4	12	6.2	1	<0.5	<0.5	13

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-K06	8	bT	26	27	10	65	0.7	12	6.4	<1	<0.5	1.1	14
MA-K07	0	bT	41	28	10	56	0.5	11	7.0	2	<0.5	<0.5	17
MA-K08	0	bT	36	40	10	66	0.9	13	5.9	1	<0.5	1.0	11
MA-K09	0	bT	35	31	6	85	0.7	11	6.5	1	<0.5	<0.5	11
MA-K10	0	bT	36	27	8	51	0.6	11	8.1	<1	<0.5	1.1	20
MA-K11	0	bT	28	37	10	100	0.8	10	7.0	<1	<0.5	<0.5	15
MA-K12	0	bT	64	38	8	74	0.9	12	13	<1	<0.5	1.8	15
MA-K13	0	aT	32	29	6	58	0.6	10	7.9	<1	<0.5	1.2	14
MA-K14	0	bT	41	33	8	41	0.9	10	7.8	<1	<0.5	1.4	13
MA-L01a	0	bT	37	39	12	92	0.7	14	6.2	<1	<0.5	<0.5	16
MA-L01b-1	0	bT	38	38	6	110	0.6	15	6.4	2	<1	1.2	16
MA-L01b-2	0	bT	40	40	12	110	0.9	16	7.1	3	2	<0.5	21
MA-L02	0	bT	35	36	10	110	0.8	14	6.0	<1	<0.5	<0.5	14
MA-L03a	0	bT	40	28	6	69	0.4	12	7.1	<1	2.1	<0.5	13
MA-L03b	0	bT	35	31	12	110	0.8	14	7.7	1	<0.5	<0.5	16
MA-L04a	0	aT	53	19	10	89	0.4	9.7	9.8	1	<0.5	1.6	23
MA-L04b-1	0	aT	44	22	12	69	0.7	11	9.2	1	<0.5	<0.5	22
MA-L04b-2	0	bT	39	42	14	100	0.9	15	8.3	1	<0.5	1.0	17
MA-L05	0	aT	51	28	12	140	0.6	14	9.0	1	<0.5	1.2	21
MA-L06	0	bT	40	32	12	89	0.8	12	7.5	1	2.4	<0.5	14
MA-L07	0	bT	37	45	12	95	0.8	15	8.7	<1	<0.5	1.1	13
MA-L08	0	bT	33	50	12	86	1.0	17	7.8	<1	<0.5	1.2	12
MA-L09	0	bT	38	44	10	71	0.9	15	7.0	<1	<0.5	<0.5	12
MA-L10	0	bT	42	43	12	72	0.8	15	8.0	<1	1.8	0.9	13
MA-L11	0	bT	42	25	8	94	0.4	12	9.0	1	<0.5	1.2	16
MA-L12	0	aT	49	21	6	66	0.7	8.6	9.8	<1	<0.5	1.5	20
MA-L13-1	0	aT	35	91	46	61	1.4	12	6.5	<1	<0.5	<0.5	10
MA-L13-2	0	aT	45	96	24	70	0.8	12	9.0	<1	<0.5	1.3	15
MA-L14	0	bT	40	48	10	60	0.8	13	8.4	1	1.5	1.3	14
MA-M01	1	bT	32	43	14	80	0.7	14	6.0	<1	1.7	0.7	14
MA-M01	2	bT	31	43	14	92	0.8	15	6.0	<1	1.4	0.8	14
MA-M02a	0	aT	64	17	12	150	0.7	11	13	1	<0.5	2.2	39
MA-M02b	0	bT	57	33	14	130	0.8	19	11	1	1.5	1.5	24
MA-M03a	0	bT	44	23	12	140	0.7	12	9.8	1	<0.5	<0.5	23
MA-M03b	0	bT	35	31	10	110	0.6	14	7.4	2	<1	1.0	19
MA-M04	0	aT	44	21	10	110	0.4	11	8.4	1	2.4	1.1	20
MA-M05	0	aT	53	18	10	94	0.4	11	9.9	2	2.0	1.4	27
MA-M06	0	aT	67	28	16	130	0.7	11	15	1	<0.5	2.8	46
MA-M07	0	bT	51	27	8	88	0.6	11	8.7	<1	2.2	1.4	19
MA-M08	0	bT	53	39	10	79	1.1	14	9.2	1	2.2	1.3	17
MA-M08	8	bT	49	36	12	62	0.9	14	9.1	1	<0.5	1.1	16
MA-M09	0	bT	35	29	8	69	0.6	13	8.1	1	1.2	1.2	14
MA-M10	0	bT	33	40	10	80	0.9	15	6.3	1	<0.5	0.9	13
MA-M11a	0	dT	45	33	12	61	0.8	10	8.8	1	2.5	1.1	18
MA-M11b	0	bT	45	37	8	90	0.8	14	8.3	1	2	1.4	17
MA-M12	0	aT	55	34	12	66	0.8	13	11	1	<0.5	1.3	21

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-M13	0	aT	46	58	16	94	1.5	18	9.7	<1	<0.5	1.1	19
MA-M14	0	aT	45	26	4	86	0.6	9.6	9.4	<1	1.4	1.2	14
MA-N01a	0	GF	50	22	12	84	0.6	10	10	1	2.3	1.5	24
MA-N01b	0	aT	62	18	18	100	0.6	13	12	4	<0.5	1.9	35
MA-N02	0	bT	34	41	16	89	0.7	13	6.1	1	1.1	0.9	13
MA-N04	0	aT	41	28	14	100	0.9	10	7.4	2	<0.5	1.1	21
MA-N05	0	bT	43	26	8	78	0.6	11	9.6	1	<0.5	1.3	22
MA-N06	0	bT	56	26	6	70	0.6	13	9.8	1	2.4	1.2	18
MA-N07a	0	aT	37	35	12	110	1.4	11	7.2	1	<0.5	1.1	15
MA-N07b	0	bT	51	32	12	89	0.9	14	9.9	1	1.4	1.8	16
MA-N08a	0	aT	37	24	8	80	0.7	10	8.1	<1	1.8	1.1	16
MA-N08b	0	bT	40	30	8	90	0.8	14	7.8	<1	<0.5	<0.5	13
MA-N09a	0	aT	40	37	16	66	0.8	14	9.7	<1	<0.5	1.4	16
MA-N09b	0	bT	37	40	10	86	0.8	15	7.1	<1	<0.5	0.8	12
MA-N10	0	bT	48	29	6	71	0.5	12	9.4	1	1.4	1.4	17
MA-N11a	0	aT	42	36	10	59	0.8	11	7.8	<1	1.4	1.1	17
MA-N11b	0	bT	40	49	12	64	1.1	15	7.0	2	1	1.3	14
MA-N12	0	aT	63	42	16	62	0.7	18	13	<1	1.7	2.0	27
MA-N13	0	aT	47	25	6	61	0.7	9.7	9.8	<1	1.3	1.3	17
MA-N14	0	aT	42	30	8	69	0.9	12	8.8	<1	<0.5	1.4	14
MA-NP14	0	bT	37	37	8	120	0.5	14	7.7	2	<1	<0.5	17
MA-P01	0	bT	39	42	14	93	0.7	15	7.2	<1	<0.5	1.1	12
MA-P02	0	bT	71	30	12	100	1.1	14	11	1	3.2	1.8	27
MA-P02	8	bT	59	30	12	100	1.0	14	12	1	1.6	1.7	27
MA-P03a	0	aT	47	36	12	87	1.0	11	8.6	1	<0.5	1.4	22
MA-P03b	0	bT	34	32	14	110	0.8	13	6.7	1	<0.5	<0.5	19
MA-P04	0	bT	43	32	12	75	1.0	14	8.8	1	3.3	<0.5	23
MA-P05	0	aT	44	58	18	82	1.4	12	7.2	1	<0.5	<0.5	23
MA-P06	0	aT	50	36	16	120	1.0	11	8.3	1	<0.5	<0.5	32
MA-P07	0	bT	24	36	6	37	0.4	9.4	4.9	1	<0.5	0.9	9.4
MA-P08a	0	aT	49	47	12	84	1.4	13	7.0	<1	<0.5	1.1	18
MA-P08b	0	bT	47	36	10	75	1.1	14	9.8	<1	2.7	1.7	18
MA-P09	0	bT	53	37	14	93	1.1	16	11	<1	<0.5	2.2	20
MA-P10a	0	aT	35	28	10	58	0.8	9.1	6.6	<1	<0.5	1.6	16
MA-P10b	0	bT	40	31	10	51	0.8	11	7.4	<1	1	<0.5	14
MA-P11	0	bT	43	37	8	89	0.9	13	8.1	<1	<0.5	1.3	16
MA-P12	0	bT	39	33	8	68	0.8	11	7.6	<1	2.0	1.2	15
MA-P13a	0	aT	43	24	8	61	0.9	9.6	8.6	<1	<0.5	1.5	18
MA-P13b	0	bT	39	27	8	69	0.8	9.6	7.5	1	<1	1.5	16
MA-P13b	8	bT	42	27	8	64	0.8	9.6	7.4	1	1	1	16
MA-P14	0	bT	41	22	6	63	0.5	9.0	8.0	<1	<0.5	1.5	17
MA-Q01	0	bT	26	36	10	92	0.9	13	5.2	<1	<0.5	1.2	15
MA-Q02a	0	aT	26	34	14	80	1.1	10	5.5	<1	2.0	<0.5	15
MA-Q02b	0	bT	37	40	10	66	0.8	11	6.5	<1	<0.5	0.9	13
MA-Q03	0	bT	26	37	14	64	0.8	8.9	4.6	<1	1.5	0.7	11
MA-Q04a	0	aT	48	28	12	89	1.0	12	9.2	<1	<0.5	1.8	20

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-Q04b	0	bT	37	44	14	86	1.0	14	6.4	2	<1	0.9	13
MA-Q05a	0	aT	32	28	12	70	0.9	9.8	5.3	<1	<0.5	0.8	18
MA-Q05b-1	0	aT	28	26	10	67	0.7	9.9	6.5	1	<1	<0.5	15
MA-Q05b-2	0	bT	45	31	10	68	1.0	12	7.1	1	<1	1.2	14
MA-Q06	0	bT	34	49	10	100	2.7	16	6.6	<1	2.1	1.3	15
MA-Q07	0	dT	49	41	10	94	1.1	15	9.4	<1	<0.5	1.6	20
MA-Q08	0	bT	40	31	10	79	1.0	13	7.8	<1	2.1	1.1	18
MA-Q09	0	bT	38	32	8	87	0.9	12	6.8	<1	1.4	1.1	15
MA-Q10	0	bT	39	25	4	71	0.8	9.9	6.1	<1	1.2	0.9	14
MA-Q11	0	bT	45	34	8	83	1.0	14	8.3	<1	<0.5	1.3	18
MA-Q12	0	bT	41	29	8	63	0.9	11	8.3	<1	1.3	1.3	18
MA-Q13	0	bT	50	28	8	80	0.7	13	8.8	<1	1.3	1.5	18
MA-Q14	0	bT	44	21	6	75	0.8	10	8.4	<1	1.5	1.6	19
MA-R01	0	aT	44	33	16	87	2.1	12	8.9	<1	2.1	1.4	19
MA-R02a	0	bT	41	38	10	90	1.0	15	7.2	<1	2.4	1.2	15
MA-R02b	0	bT	36	37	12	100	0.9	12	6.1	1	2.7	0.8	16
MA-R03	0	bT	25	29	8	91	0.6	10	5.0	<1	1.4	0.8	13
MA-R04	0	bT	38	37	8	110	0.6	13	6.4	1	<0.5	1.1	13
MA-R05	0	aT	35	33	6	82	1.0	13	7.3	<1	1.0	1.1	15
MA-R06	0	aT	42	28	12	83	1.3	12	8.4	<1	<0.5	1.5	17
MA-R06	8	aT	46	28	12	74	1.5	12	8.5	<1	2.0	1.4	18
MA-R07a	0	bT	65	60	4	120	1.8	32	14	<1	2.3	2.5	29
MA-R07b-1	0	bT	30	30	12	58	0.8	9.2	5.9	<1	1.0	1.0	14
MA-R07b-2	0	bT	43	32	16	91	1.7	14	9.0	<1	1.5	1.5	21
MA-R08	0	bT	42	29	8	91	0.7	13	7.3	<1	2.0	1.1	20
MA-R09	0	aT	45	33	12	83	1.0	14	9.9	1	1.8	1.8	21
MA-R10	0	bT	40	31	6	85	0.8	14	7.3	1	1.2	1.2	17
MA-R11	0	bT	50	33	10	100	1.0	14	8.7	1	2.2	1.6	17
MA-R12a	0	bT	37	25	6	73	0.7	10	6.8	1	1.2	1.3	16
MA-R12b	0	bT	41	28	10	90	1.0	12	8.3	<1	1.6	1.2	16
MA-R13	0	bT	37	45	8	92	1.1	17	7.2	<1	1.2	1.3	15
MA-R14	0	bT	35	40	6	85	0.8	13	6.3	<1	1.3	0.9	17
MA-S01	0	bT	34	23	8	69	0.8	9.4	6.1	1	1.8	0.9	14
MA-S02a	0	GF	81	25	38	66	1.4	33	22	<1	<0.5	4.0	44
MA-S02b	0	bT	42	28	10	89	1.1	13	8.3	1	1.6	1.4	15
MA-S03a	0	aT	35	36	18	75	1.1	12	7.2	<1	1.6	0.9	19
MA-S03b	0	aT	30	36	8	78	0.8	11	5.8	1	1.7	0.9	14
MA-S04a	0	bT	33	29	8	73	0.6	11	6.2	2	1.2	1.0	13
MA-S04b-1	0	bT	34	30	8	89	0.6	12	6.1	<1	1.2	1.0	13
MA-S04b-2	0	bT	37	40	12	110	1.0	15	6.7	2	1.7	0.9	15
MA-S05a	0	GF	49	34	22	100	1.6	18	9.6	<1	1.4	1.5	22
MA-S05b	0	bT	38	38	10	110	0.9	14	6.9	<1	1.2	1.2	14
MA-S06a	0	aT	28	48	14	69	0.6	16	5.3	<1	1.2	1.3	14
MA-S06b-1	0	aT	37	29	12	91	1.5	11	7.0	<1	1.2	1.1	17
MA-S06b-2	0	bT	40	33	12	88	1.3	14	7.9	2	1.2	1.3	17
MA-S07a	0	bT	37	23	8	70	0.9	11	7.1	1	1.6	1.0	14

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Material	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-S07b	0	bT	43	18	6	60	0.7	11	8.2	1	2	1.3	15
MA-S08	1	bT	41	32	10	90	0.9	15	8.4	1	1.1	1.3	17
MA-S08	2	bT	42	33	10	110	1.1	15	8.2	1	<0.5	1.6	17
MA-S09	0	bT	42	31	6	100	0.7	15	7.9	1	<0.5	<0.5	17
MA-S10	0	bT	42	20	6	89	0.9	9.2	8.1	2	<0.5	<0.5	17
MA-S11	0	aT	50	25	10	63	0.9	13	9.4	1	<0.5	1.4	20
MA-S12a	0	rk	28	7	14	280	1.7	7.4	5.0	2	1.8	0.9	11
MA-S12b	1	bT	39	21	10	100	0.7	9.2	7.0	1	1.5	1.2	20
MA-S12b	2	bT	33	20	6	110	0.5	8.0	7.3	1	2	1.8	19
MA-S13	0	bT	60	25	10	73	1.1	13	9.3	<1	1.0	1.4	18
MA-S14	0	bT	52	21	6	80	0.6	8.9	9.9	<1	1.6	1.6	23
MA-T01	0	bT	38	31	10	100	0.9	13	6.4	3	2.4	<0.5	17
MA-T02	0	bT	38	40	8	94	1.0	15	7.4	1	<0.5	1.0	15
MA-T03	0	bT	35	36	8	95	0.9	14	5.9	2	1.6	<0.5	16
MA-T04	0	bT	35	38	10	130	0.9	13	6.7	2	1.5	1.2	19
MA-T05-1	0	aT	39	25	14	80	0.8	10	8.5	<1	1.7	1.6	21
MA-T05-2	0	bT	46	33	12	140	1.1	14	8.8	1	1.8	1.6	20
MA-T06	0	bT	37	33	10	81	1.3	12	6.7	1	1.2	1.0	13
MA-T06	8	bT	39	32	8	80	1.4	11	6.4	1	1.3	1.0	13
MA-T07	0	bT	37	26	6	69	0.7	11	7.1	<1	<0.5	1.1	13
MA-T08	0	bT	36	20	10	66	0.8	9.1	6.6	<1	1.3	0.8	17
MA-T09	0	bT	51	17	12	100	0.9	9.0	11	1	2.9	1.7	20
MA-T10a	0	aT	38	21	8	100	0.9	9.7	6.4	1	1.7	<0.5	16
MA-T10b	0	bT	52	23	8	80	0.9	12	9.0	<1	1.4	1.4	19
MA-T11	0	bT	40	17	10	76	1.0	15	7.3	1	1.6	1.2	17
MA-T12a	0	aT	49	31	12	91	0.9	13	8.0	3	1.8	1.2	19
MA-T12b	0	bT	42	31	14	98	0.9	12	8.1	1	1.7	1.2	18
MA-T13	0	bT	34	28	6	76	0.7	11	6.7	<1	<0.5	1.1	16
MA-T14	0	bT	33	35	12	160	1.3	17	7.4	1	<0.5	1.4	15
MA-V01	0	bT	31	25	6	64	0.7	9.6	5.7	1	1.2	0.8	11
MA-V02a	0	aT	41	31	8	83	0.9	12	7.1	2	<0.5	1.2	15
MA-V02b	0	bT	42	34	10	100	1.0	14	8.4	3	1.2	1.4	16
MA-V03	0	bT	40	40	10	110	1.2	15	7.5	1	<0.5	1.0	16
MA-V04	0	bT	34	34	8	98	0.9	13	6.2	<1	1.2	0.9	16
MA-V05	0	bT	34	35	8	110	1.0	14	5.9	2	1.2	0.9	16
MA-V06	0	bT	31	28	6	110	0.5	11	5.3	2	1.7	0.7	12
MA-V07	0	bT	35	36	8	77	0.6	14	6.8	1	<0.5	1.2	14
MA-V08	0	bT	29	34	6	89	0.6	11	5.6	<1	1.2	0.8	14
MA-V09a	0	aT	38	24	10	60	0.6	8.5	6.6	1	1.6	1.2	15
MA-V09b	0	bT	37	27	10	89	0.8	12	7.1	<1	1.5	1.2	15
MA-V10	0	bT	28	19	12	78	0.6	7.3	4.9	<1	1.2	0.8	14
MA-V11	0	bT	32	25	10	74	0.7	8.9	5.5	1	1.1	1.0	15
MA-V12	0	bT	32	25	6	80	0.7	9.9	5.7	1	1.6	1.1	13
MA-V13a	0	aT	38	24	10	64	0.8	9.1	6.6	<1	1.6	1.0	19
MA-V13b	0	bT	45	25	8	71	0.8	11	7.9	3	1.3	1.3	15
MA-V14	0	bT	37	26	10	76	0.7	11	6.6	<1	1.2	1.0	15

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	Nd # ppm	Ni @ ppm	Pb @ ppm	Rb # ppm	Sb # ppm	Sc # ppm	Sm # ppm	Sn (?) ppm	Ta # ppm	Tb # ppm	Th # ppm
MA-W01	0	bT	36	34	10	100	1.2	14	6.9	1	1.9	1.0	16
MA-W02	0	bT	31	31	10	89	1.0	11	5.8	1	1.7	1.0	16
MA-W03	0	bT	37	35	10	98	1.0	15	6.3	<1	1.5	1.0	17
MA-W04	0	bT	39	33	12	100	0.8	13	6.9	<1	1.2	1.1	16
MA-W04	8	bT	36	35	12	95	0.8	12	6.7	4	1.4	1.1	16
MA-W05	0	bT	27	41	8	73	0.8	13	5.4	3	1.4	0.8	13
MA-W06	0	bT	32	38	10	94	0.8	12	5.8	2	<0.5	0.9	15
MA-W07	0	bT	39	41	12	98	1.1	15	6.7	1	1.1	0.8	16
MA-W08a	0	aT	26	32	8	65	0.8	10	5.3	<1	1.0	0.8	14
MA-W08b-1	0	aT	33	29	12	66	0.7	11	6.2	1	2	1.0	14
MA-W08b-2	0	bT	41	30	10	86	0.7	14	7.2	2	1	1.2	13
MA-W08b-3	0	dT	40	26	10	84	0.6	12	7.8	1	1	1.1	14
MA-W09	0	bT	38	26	8	78	0.7	11	6.5	<1	<0.5	0.8	15
MA-W10	0	bT	37	23	6	68	0.6	9.5	6.4	<1	1.4	1.2	14
MA-W12	0	bT	39	25	6	74	0.6	8.9	7.3	1	1.5	1.3	17
MA-W13a	0	aT	47	21	18	71	1.0	11	9.7	<1	1.7	1.7	18
MA-W13b	0	bT	39	26	8	90	0.7	12	7.9	2	<1	<0.5	13
MA-W14	0	bT	44	31	10	110	1.0	14	7.6	3	1.3	1.2	18
MA-X12	0	bT	40	23	10	93	0.7	10	7.0	1	1.3	1.1	14
MA-X13	0	bT	49	27	12	88	0.9	12	9.0	1	1.5	1.5	16
MA-X14	0	bT	41	29	10	100	1.0	13	7.5	2	1.5	1.1	17

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Material	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-A01	0	bT	4.4	<1	4.4	52	24.87
MA-A02	0	bT	4.0	<1	3.4	51	26.24
MA-A02	8	bT	4.3	3	3.4	46	25.00
MA-A03a	0	bT	4.8	<1	6.0	46	25.97
MA-A03b	0	bT	3.8	<1	4.7	54	25.65
MA-A04	0	bT	3.8	<1	4.4	40	23.93
MA-A05a	0	bT	5.6	<1	5.4	34	25.85
MA-A05b	0	bT	4.2	<4	5.05	35	34.27
MA-A06a	0	aT	3.1	<1	4.5	30	28.22
MA-A06b	0	bT	5.7	<1	5.1	45	21.47
MA-A07	0	aT	4.4	3	5.5	30	27.42
MA-A08	0	bT	6.4	3	5.3	39	22.65
MA-A09	0	bT	4.7	<1	4.8	42	22.62
MA-B01	0	bT	3.7	<1	4.7	58	20.79
MA-B02a	0	aT	3.5	<1	4.2	33	26.40
MA-B02b	0	bT	4.1	<1	4.7	64	21.46
MA-B03	0	bT	4.2	4	6.6	65	19.67
MA-B04	0	bT	4.3	<1	3.3	50	22.03
MA-B05	0	bT	4.9	<1	5.2	43	25.35
MA-B06	0	bT	5.6	<1	6.4	39	24.61
MA-B07	0	bT	3.4	<1	4.7	53	22.73
MA-B08	0	aT	4.3	<1	5.2	34	25.03
MA-B09	0	aT	6.0	<1	8.0	34	29.39
MA-C01	0	bT	3.9	<1	4.3	51	19.54
MA-C01	8	bT	3.6	3	4.9	55	19.69
MA-C02	0	bT	5.2	<1	5.2	77	22.68
MA-C03	0	bT	4.6	3	7.3	43	27.94
MA-C04	0	bT	6.1	4	4.6	63	19.27
MA-C05	0	bT	5.1	4	4.9	56	19.66
MA-C06a	0	aT	5.5	<1	4.8	29	26.21
MA-C06b	0	bT	5.1	<1	5.9	47	23.45
MA-C07	0	bT	10	3	5.2	40	23.52
MA-C08	0	bT	4.5	3	4.7	52	20.61
MA-C09	0	bT	3.9	<1	3.6	39	23.87
MA-C10a	0	aT	5.4	<1	6.2	33	26.23
MA-C10b	0	aT	3.7	<1	5.3	31	27.86
MA-C11	0	aT	4.1	<1	4.7	52	22.12
MA-C13a	0	aT	4.3	2	4.7	49	22.77
MA-C13b	0	bT	4.8	<1	4.8	40	24.49
MA-D01	0	bT	4.3	<1	4.0	52	19.71
MA-D02	0	bT	6.0	2	4.4	53	21.92
MA-D03	0	bT	5.9	<1	5.4	65	19.74
MA-D04a	0	aT	4.8	2	5.7	46	22.95
MA-D04b	0	bT	5.4	3	5.9	60	22.72
MA-D05	0	bT	5.8	5	5.5	49	23.13
MA-D06	0	bT	6.3	3	6.0	48	24.93

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-D07	0	aT	7.3	<1	6.4	32	24.10
MA-D08	0	bT	5.3	<1	6.4	52	19.43
MA-D09	0	bT	3.4	<1	5.0	48	20.71
MA-D10	0	bT	5.5	<1	5.5	50	24.02
MA-D11	0	bT	4.9	2	4.8	32	21.67
MA-D12	0	bT	4.3	<1	4.4	30	26.30
MA-D13	0	aT	4.4	2	4.8	36	27.56
MA-D14	0	bT	5.7	<1	6.1	38	21.67
MA-E01	0	bT	4.0	2	4.9	56	22.12
MA-E02	0	bT	6.1	4	4.4	60	20.68
MA-E03	0	bT	4.3	<1	4.3	54	21.84
MA-E04a	0	aT	5.7	3	4.1	46	20.65
MA-E04b-1	0	bT	3.8	<1	4.2	60	21.61
MA-E04b-2	0	bT-P	6.0	<2	5.9	65	26.36
MA-E05	0	bT	3.9	2	4.9	61	24.88
MA-E06	0	bT	5.7	2	4.5	54	27.28
MA-E06	8	bT	5.5	2	5.0	56	28.34
MA-E07	0	bT	4.4	2	4.2	46	29.01
MA-E08	0	aT	6.9	3	6.4	31	21.77
MA-E09	0	bT	9.2	3	6.0	53	24.27
MA-E10	0	bT	2.6	<1	4.0	73	24.76
MA-E11	0	bT	4.7	<1	4.4	35	29.10
MA-E12	0	bT	4.4	<1	4.5	31	29.23
MA-E13	0	aT	4.3	<1	4.7	53	28.83
MA-E14	0	bT	3.1	2	3.7	35	30.97
MA-F01	0	bT	4.3	<1	4.2	49	27.02
MA-F02	0	aT	4.4	7	3.5	45	27.30
MA-F03a	0	aT	4.5	<1	3.9	49	27.04
MA-F03b	0	bT	6.1	<1	4.6	49	30.34
MA-F04	1	bT	5.3	3	5.9	64	27.00
MA-F04	2	bT	5.4	<1	6.3	63	26.82
MA-F05	0	bT	4.9	<1	4.3	54	25.89
MA-F06	0	bT	4.9	<1	6.1	43	29.78
MA-F07	0	bT	6.8	4	5.3	48	26.82
MA-F08	0	aT	6.8	<1	6.7	35	29.69
MA-F09a	0	bT	7.6	<1	6.6	29	29.99
MA-F09b	0	bT	9.3	<1	10.1	57	26.43
MA-F10	0	bT	6.3	<1	5.5	51	27.94
MA-F11a	0	aT	4.5	<1	5.9	44	30.18
MA-F11b	0	bT	4.8	<1	5.9	54	25.67
MA-F11c-1	0	bT	3.5	<4	4.58	53	28.36
MA-F11c-2	0	bT	4.4	<4	6.51	36	32.70
MA-F12	0	bT	5.2	<1	4.4	41	25.05
MA-F13	1	bT	3.9	<1	4.8	31	31.49
MA-F13	2	bT	4.1	<1	4.4	28	31.90
MA-F14	0	bT	3.8	<1	4.1	16	27.58

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat- erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-FG01	0	bT	4.1	<4	4.29	44	33.38
MA-G01	0	aT	5.3	<1	4.8	45	30.18
MA-G01	8	aT	4.6	1	4.6	43	33.74
MA-G02	0	bT	4.7	4	4.1	54	25.62
MA-G03	0	aT	10	4	4.9	47	29.54
MA-G04	0	aT	7.3	3	6.2	50	33.05
MA-G05	0	bT	3.3	<1	4.0	50	27.18
MA-G06	0	bT	12	<1	4.7	56	26.29
MA-G07	0	bT	4.8	<1	5.9	48	26.57
MA-G08	0	bT	4.8	3	4.9	53	26.94
MA-G09	0	bT	77	4	7.7	16	26.34
MA-G10a	0	aT	6.1	<1	7.2	40	32.12
MA-G10b-1	0	aT	4.2	<4	6.06	40	36.34
MA-G10b-2	0	bT	3.7	<4	5.77	50	33.05
MA-G11a	0	bT	4.2	<1	5.1	48	26.43
MA-G11b	0	bT	2.9	<4	4.48	48	34.12
MA-G12	0	bT	3.8	<1	4.6	41	28.12
MA-G13	0	bT	4.2	<1	4.7	30	30.27
MA-G14a	0	bT	4.8	<1	5.3	32	31.83
MA-G14b	0	bT	4.3	<1	4.8	50	28.04
MA-H01	0	bT	7.5	4	6.2	69	28.06
MA-H02-1	0	bT	6.8	<1	5.3	48	29.15
MA-H02-2	0	bT	6.3	<1	5.8	63	26.38
MA-H03	0	aT	3.7	4	3.8	53	21.69
MA-H04a	0	aT	9.8	<1	5.8	55	27.39
MA-H04b	0	bT	5.1	<1	5.8	62	27.25
MA-H05	0	bT	4.8	<1	4.1	47	27.09
MA-H06	0	bT	3.0	<1	3.7	51	26.03
MA-H07	0	bT	3.8	2	4.0	49	27.33
MA-H08a	0	aT	4.5	<1	5.0	36	30.18
MA-H08b	0	bT	4.2	<1	4.8	45	30.82
MA-H09	0	bT	6.7	6	7.3	57	24.61
MA-H10	0	bT	4.3	4	4.4	56	25.50
MA-H11	0	aT	4.4	<1	5.5	28	34.07
MA-H12	0	bT	3.8	<1	4.7	34	30.34
MA-H13	0	bT	4.6	<1	5.3	62	25.69
MA-H14	0	bT	3.8	<1	4.8	34	27.68
MA-K01	0	bT	8.1	<1	4.8	72	24.39
MA-K02	0	bT	7.1	4	4.8	54	27.99
MA-K03a-1	0	aT	5.6	<1	4.4	42	30.88
MA-K03a-2	0	aT	7.1	<1	4.6	41	31.87
MA-K03b	0	bT	3.7	<4	5.12	69	31.89
MA-K04	0	aT	8.8	5	7.4	61	29.60
MA-K05a	0	aT	5.0	<1	4.1	40	31.43
MA-K05b	0	bT	4.6	<1	4.5	60	27.20
MA-K06	0	bT	5.2	<1	3.5	36	30.13

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Material	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-K06	8	bT	4.2	<1	3.5	38	28.99
MA-K07	0	bT	4.3	<1	3.6	51	27.85
MA-K08	0	bT	<0.5	<1	2.8	52	27.26
MA-K09	0	bT	3.7	<1	3.4	44	25.51
MA-K10	0	bT	5.0	<1	4.2	43	30.46
MA-K11	0	bT	4.0	<1	3.4	47	25.80
MA-K12	0	bT	11	2	5.9	43	24.42
MA-K13	0	aT	4.2	<1	4.0	42	26.79
MA-K14	0	bT	3.2	<1	4.4	42	31.77
MA-L01a	0	bT	3.1	<1	3.2	63	26.40
MA-L01b-1	0	bT	4.7	<4	4.08	69	23.98
MA-L01b-2	0	bT	4.4	<4	4.21	71	22.93
MA-L02	0	bT	4.3	<1	3.2	55	29.15
MA-L03a	0	bT	4.1	<1	3.8	45	32.21
MA-L03b	0	bT	4.1	4	4.0	58	28.07
MA-L04a	0	aT	6.7	<1	5.4	43	33.50
MA-L04b-1	0	aT	6.1	<1	5.0	46	32.88
MA-L04b-2	0	bT	3.9	2	4.5	69	26.50
MA-L05	0	aT	13	<1	4.8	56	26.75
MA-L06	0	bT	3.7	<1	3.9	51	29.71
MA-L07	0	bT	2.7	5	4.4	64	28.92
MA-L08	0	bT	3.5	2	4.1	69	26.28
MA-L09	0	bT	2.5	<1	3.4	60	27.78
MA-L10	0	bT	2.2	<1	3.5	67	26.09
MA-L11	0	bT	3.5	<1	4.8	45	26.76
MA-L12	0	aT	3.6	<1	5.5	29	37.14
MA-L13-1	0	aT	2.4	<1	3.1	96	19.30
MA-L13-2	0	aT	4.3	2	4.6	86	22.34
MA-L14	0	bT	2.7	<1	5.1	40	28.69
MA-M01	1	bT	3.3	<1	3.1	64	23.98
MA-M01	2	bT	4.3	<1	3.3	62	26.81
MA-M02a	0	aT	10	3	7.7	47	31.33
MA-M02b	0	bT	7.0	<1	6.1	67	30.81
MA-M03a	0	bT	4.9	3	5.3	49	31.18
MA-M03b	0	bT	5.2	<4	4.63	61	33.40
MA-M04	0	aT	6.0	<1	4.6	38	28.87
MA-M05	0	aT	5.8	<1	5.6	42	34.08
MA-M06	0	aT	9.2	<1	14.0	52	27.75
MA-M07	0	bT	3.9	<1	4.9	42	29.32
MA-M08	0	bT	3.5	<1	4.7	54	29.43
MA-M08	8	bT	3.5	1	4.5	51	30.94
MA-M09	0	bT	2.6	2	4.2	40	32.27
MA-M10	0	bT	2.5	<1	3.4	55	28.05
MA-M11a	0	dT	2.7	<1	4.8	41	30.61
MA-M11b	0	bT	3.5	<4	4.85	55	26.88
MA-M12	0	aT	3.6	<1	5.7	41	29.28

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-M13	0	aT	4.4	2	5.9	65	26.13
MA-M14	0	aT	4.3	<1	5.1	37	30.52
MA-N01a	0	GF	4.8	<1	5.8	41	33.04
MA-N01b	0	aT	7.4	<1	6.9	89	32.83
MA-N02	0	bT	3.3	<1	3.3	47	27.09
MA-N04	0	aT	4.2	2	4.4	53	34.83
MA-N05	0	bT	4.2	<1	4.8	49	29.14
MA-N06	0	bT	7.4	<1	5.3	41	30.13
MA-N07a	0	aT	4.1	3	4.1	45	31.88
MA-N07b	0	bT	3.4	<1	5.3	53	27.76
MA-N08a	0	aT	3.2	<1	4.7	41	33.71
MA-N08b	0	bT	3.6	<1	4.1	45	28.25
MA-N09a	0	aT	4.1	<1	5.2	51	31.87
MA-N09b	0	bT	2.3	<1	3.3	56	26.60
MA-N10	0	bT	4.1	<1	5.0	35	30.01
MA-N11a	0	aT	3.7	<1	4.5	38	27.49
MA-N11b	0	bT	2.5	<4	4.31	72	27.49
MA-N12	0	aT	12	<1	5.8	41	22.24
MA-N13	0	aT	3.4	<1	5.4	29	31.25
MA-N14	0	aT	3.2	<1	5.0	33	32.58
MA-NP14	0	bT	3.0	<4	4.71	71	31.21
MA-P01	0	bT	2.5	<1	3.8	60	26.00
MA-P02	0	bT	4.8	<1	6.1	52	28.04
MA-P02	8	bT	5.1	<1	6.3	53	23.08
MA-P03a	0	aT	4.6	<1	4.5	54	33.75
MA-P03b	0	bT	2.8	<1	3.1	54	22.74
MA-P04	0	bT	5.8	<1	5.1	55	21.82
MA-P05	0	aT	4.4	<1	4.0	54	24.25
MA-P06	0	aT	5.7	<1	5.5	45	28.22
MA-P07	0	bT	3.6	<1	2.9	42	33.72
MA-P08a	0	aT	4.4	<1	4.3	63	22.43
MA-P08b	0	bT	3.5	<1	6.0	47	25.26
MA-P09	0	bT	5.6	<1	6.5	44	19.75
MA-P10a	0	aT	4.0	<1	4.3	39	30.40
MA-P10b	0	bT	3.0	<4	5.05	40	33.07
MA-P11	0	bT	4.2	<1	4.9	45	23.66
MA-P12	0	bT	3.4	<1	4.4	37	27.74
MA-P13a	0	aT	4.1	3	4.7	32	30.63
MA-P13b	0	bT	4.2	<4	4.69	34	29.75
MA-P13b	8	bT	3.3	<4	4.56	35	32.71
MA-P14	0	bT	4.3	<1	4.9	30	27.10
MA-Q01	0	bT	3.6	3	3.1	49	23.29
MA-Q02a	0	aT	4.0	<1	3.0	54	20.15
MA-Q02b	0	bT	2.4	<1	3.9	54	26.36
MA-Q03	0	bT	2.1	<1	2.4	53	30.02
MA-Q04a	0	aT	4.8	<1	5.7	45	28.11

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat- erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-Q04b	0	bT	2.5	<4	3.94	73	32.07
MA-Q05a	0	aT	4.8	<1	3.2	48	20.54
MA-Q05b-1	0	aT	3.7	<4	4.05	38	34.12
MA-Q05b-2	0	bT	2.6	<4	4.32	45	31.68
MA-Q06	0	bT	3.9	<1	4.6	49	21.43
MA-Q07	0	dT	4.4	<1	5.0	52	25.48
MA-Q08	0	bT	4.4	<1	4.4	43	26.31
MA-Q09	0	bT	4.0	<1	3.8	45	24.05
MA-Q10	0	bT	3.9	<1	3.7	41	23.78
MA-Q11	0	bT	3.6	<1	4.5	49	21.88
MA-Q12	0	bT	4.7	<1	4.8	37	25.63
MA-Q13	0	bT	4.2	2	5.5	37	28.33
MA-Q14	0	bT	5.0	<1	4.9	29	26.48
MA-R01	0	aT	5.3	<1	4.8	49	26.37
MA-R02a	0	bT	3.7	<1	4.1	64	23.48
MA-R02b	0	bT	3.3	<1	3.4	54	23.65
MA-R03	0	bT	3.5	<1	3.1	40	27.12
MA-R04	0	bT	3.2	<1	3.8	44	21.47
MA-R05	0	aT	4.1	<1	4.4	52	27.97
MA-R06	0	aT	3.9	3	5.1	40	28.72
MA-R06	8	aT	5.3	<1	5.3	39	27.11
MA-R07a	0	bT	9.5	4	10.7	80	11.59
MA-R07b-1	0	bT	3.4	4	3.6	41	35.40
MA-R07b-2	0	bT	4.4	4	5.8	43	26.00
MA-R08	0	bT	5.6	<1	4.2	48	21.02
MA-R09	0	aT	6.3	<1	5.7	46	26.60
MA-R10	0	bT	4.0	<1	4.0	43	22.84
MA-R11	0	bT	3.6	<1	5.0	50	23.53
MA-R12a	0	bT	4.2	<1	3.9	33	27.62
MA-R12b	0	bT	3.5	3	5.0	40	27.00
MA-R13	0	bT	3.4	2	4.0	53	22.66
MA-R14	0	bT	3.8	2	3.6	43	22.96
MA-S01	0	bT	3.7	<1	3.8	33	29.65
MA-S02a	0	GF	9.7	<1	10.1	39	10.59
MA-S02b	0	bT	3.6	2	4.7	36	27.91
MA-S03a	0	aT	4.3	<1	4.0	52	23.29
MA-S03b	0	aT	4.7	3	4.0	50	23.96
MA-S04a	0	bT	5.0	3	3.9	38	26.49
MA-S04b-1	0	bT	4.6	<1	3.4	42	24.69
MA-S04b-2	0	bT	3.9	<1	4.0	58	22.68
MA-S05a	0	GF	5.2	2	4.9	51	17.84
MA-S05b	0	bT	3.3	<1	4.1	56	22.82
MA-S06a	0	aT	4.3	<1	4.1	75	23.59
MA-S06b-1	0	aT	3.7	<1	4.3	35	25.75
MA-S06b-2	0	bT	4.6	3	4.7	54	23.31
MA-S07a	0	bT	3.5	<1	4.2	35	28.45

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat-erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-S07b	0	bT	4.3	<1	5.58	30	35.91
MA-S08	1	bT	3.7	<1	4.6	49	23.89
MA-S08	2	bT	2.6	<1	4.7	51	23.36
MA-S09	0	bT	5.1	<1	4.9	46	25.40
MA-S10	0	bT	6.9	<1	5.3	40	33.19
MA-S11	0	aT	5.6	<1	5.7	33	30.34
MA-S12a	0	rk	2.5	3	2.8	11	21.62
MA-S12b	1	bT	5.3	3	4.9	33	26.01
MA-S12b	2	bT	4.9	<4	4.85	26	33.49
MA-S13	0	bT	4.1	<1	4.7	42	25.23
MA-S14	0	bT	3.9	<1	6.1	25	27.30
MA-T01	0	bT	3.4	<1	3.9	47	22.38
MA-T02	0	bT	5.0	<1	4.4	50	24.31
MA-T03	0	bT	3.6	<1	3.5	52	22.09
MA-T04	0	bT	5.2	3	5.0	68	20.89
MA-T05-1	0	aT	5.5	<1	5.7	35	24.88
MA-T05-2	0	bT	5.9	<1	5.3	65	23.31
MA-T06	0	bT	3.3	<1	4.2	38	26.49
MA-T06	8	bT	2.7	<1	3.8	37	25.73
MA-T07	0	bT	3.1	<1	3.9	38	24.83
MA-T08	0	bT	3.7	<1	4.1	28	28.20
MA-T09	0	bT	3.9	<1	6.0	24	26.39
MA-T10a	0	aT	3.9	5	4.3	30	25.13
MA-T10b	0	bT	4.6	<1	5.5	33	26.79
MA-T11	0	bT	4.7	<1	4.9	22	22.56
MA-T12a	0	aT	5.0	<1	4.1	50	22.61
MA-T12b	0	bT	3.5	<1	4.4	51	25.17
MA-T13	0	bT	3.8	<1	4.2	47	22.78
MA-T14	0	bT	3.7	3	5.3	47	18.72
MA-V01	0	bT	3.9	2	3.6	32	25.27
MA-V02a	0	aT	4.4	3	3.8	44	23.18
MA-V02b	0	bT	3.1	<1	4.7	49	23.09
MA-V03	0	bT	2.9	<1	4.3	58	22.48
MA-V04	0	bT	3.3	<1	4.0	51	21.00
MA-V05	0	bT	3.2	<1	3.7	53	19.87
MA-V06	0	bT	4.0	<1	3.5	44	19.85
MA-V07	0	bT	4.9	2	4.0	57	18.30
MA-V08	0	bT	3.2	<1	3.3	44	22.47
MA-V09a	0	aT	4.4	2	4.1	38	26.28
MA-V09b	0	bT	3.4	<1	4.0	40	25.23
MA-V10	0	bT	3.5	<1	3.3	38	26.74
MA-V11	0	bT	3.7	<1	3.8	36	24.21
MA-V12	0	bT	3.9	<1	4.1	35	26.24
MA-V13a	0	aT	4.1	<1	3.9	41	25.38
MA-V13b	0	bT	3.0	<1	4.2	38	24.41
MA-V14	0	bT	3.2	<1	3.8	36	27.83

MAdam (NTS 21 G/11):
analytical data

SAMPLE	Rep. Stat.	Mat- erial	U # ppm	W # ppm	Yb # ppm	Zn @ ppm	Mass g
MA-W01	0	bT	3.1	<1	4.1	47	19.87
MA-W02	0	bT	3.9	<1	4.0	48	23.38
MA-W03	0	bT	3.6	<1	3.7	48	20.65
MA-W04	0	bT	4.6	<1	4.1	43	21.63
MA-W04	8	bT	5.5	4	4.3	47	22.53
MA-W05	0	bT	3.4	<1	3.3	56	21.56
MA-W06	0	bT	3.4	<1	3.6	54	21.93
MA-W07	0	bT	3.2	<1	3.6	59	20.18
MA-W08a	0	aT	3.7	3	3.8	51	23.89
MA-W08b-1	0	aT	3.0	<4	4.21	43	34.20
MA-W08b-2	0	bT	3.5	<4	4.65	49	30.43
MA-W08b-3	0	dT	5.2	<4	5.05	50	31.05
MA-W09	0	bT	3.9	<1	3.9	37	21.50
MA-W10	0	bT	4.0	<1	3.9	35	22.90
MA-W12	0	bT	4.6	3	4.7	26	29.16
MA-W13a	0	aT	4.8	<1	5.4	33	28.62
MA-W13b	0	bT	3.7	<4	4.75	40	30.60
MA-W14	0	bT	4.2	<1	4.6	38	19.84
MA-X12	0	bT	6.0	<1	4.2	38	22.46
MA-X13	0	bT	3.7	<1	5.0	41	24.59
MA-X14	0	bT	3.4	<1	4.3	44	20.97